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of the conduction band. If the former is assumed to be due chiefly to the 2p-state of the oxygen, one can neglect the spin-orbit interaction. If, however, the Γ_{25}^{+} valency band is mainly due to the 3d-state of Cu, the spin-orbit interaction will split it into a doubly degenerate Γ_{7}^{+} and a quadruply degenerate Γ_{8}^{+} band (at $\vec{k} = 0$). These two band models are used to develop the theory of the Zeeman effect of directly forbidden excitons. Theory and experiment do not, however, fully agree. The Γ_{25}^{-}, Γ_{2}^{-}, Γ_{12}^{-} symmetry levels may affect the magnetic sublevels that are due to the splitting of the Γ_{15} level. There are 3 figures.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR, Leningrad (Physicotechnical Institute imeni A. F. Ioffe, AS USSR, Leningrad)

SUBMITTED: August 14, 1962

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

GROSS, Ye. F.; ZHILICH, A. G.; ZAKHARCHENYA, B. P.; MAKAROV, V. P.; SIBILEV, A. I.

Zeeman effect for the yellow exciton series in high magnetic fields. Fiz. tver. tela 5 no.1:327-338 Ja '63. (MIRA 16:1)

1. Fiziko-tekhnicheskiy institut imeni Ioffe AN SSSR, Leningrad.

(Magnetooptics) (Copper oxide—Spectra)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILICH, A.G.; CHEREPANOV, V.I.; KARAGAPOLOV, Yu.A.

Possible existence of magnetic dipole lines in the exciton absorption spectrum. Fiz. tver. tela 3 no.6:1812-1814 Je '61. (MIRA 14:7)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova i Ural'skiy gosudarstvennyy universitet im. A.M.Gor'kogo, Sverdlovsk.
(Dipole moments) (Excitons) (Absorption spectra)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILICH, A.G.

Effect of deformations and of a magnetic field on exciton absorption in cubic crystals. Fiz.tver.tela 3 no.7:2041-2047 Jl '61. (MIRA 14:8)

1. Leningradskiy gosudarstvennyy universitet imeni A.A.Zhdanova.
(Magnetic fields) (Excitons) (Deformations)
(Crystal lattices)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILICH, A. G. Cand Phys-Math Sci -- (diss) "On the Wave Functions of Small-Radius Excitons in a Cuprous-Oxide Crystal." Len, 1957. 11 pp 21 cm. (Len Order of Lenin State Univ im A. A. Zhdanov), 100 copies (KL, 26-57, 104)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILICH, A.G.

Irreducible representations of the space group for crystals of the cuprous oxide type. Vest. LGU 14 no.22:5-18 '59. (MIRA 12:11)
(Copper oxide) (Crystallography, Mathematical)

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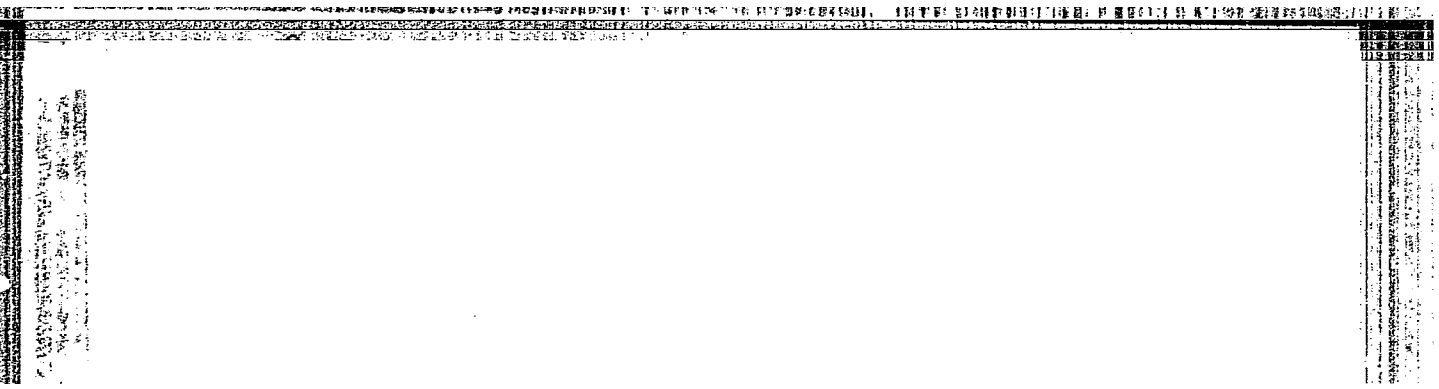

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ZHILICH, A.G.

Double representations of the space group of crystals with the cuprous oxide structure. Vest.LGU 15 no.10:5-15 '60.
(MIRA 13:5)

(Crystal lattices)

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ZHILICH, A.G.; MAKAROV, V.P.

Theory of excitons of large radius in crystals with degenerate bands. Vest. LGU. 18 no.16:22-37 '63. (MIRA 16:11)

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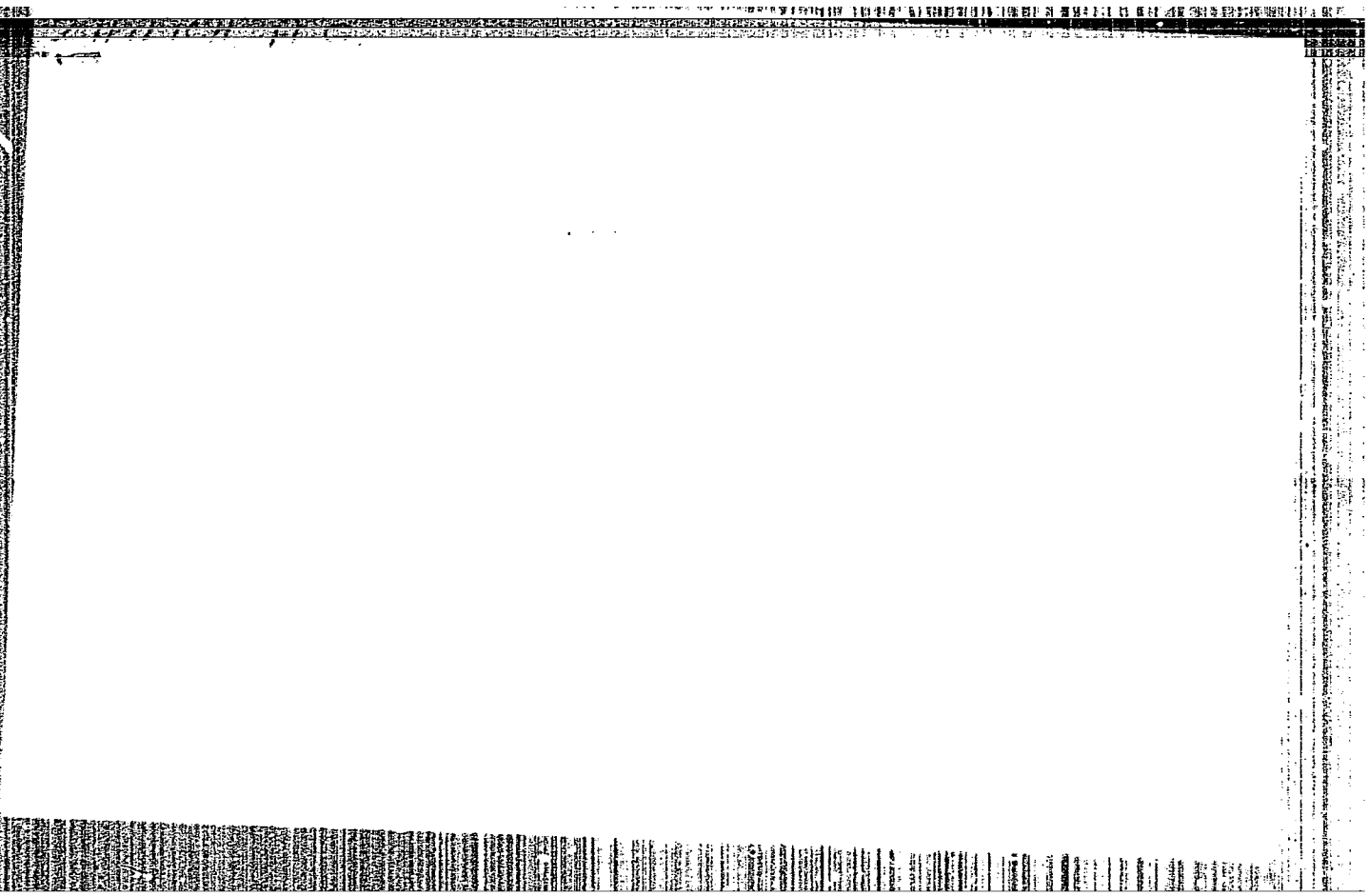

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ZHILICH, A.G.

Dielectric constant and the effect of magnetic field inversion in the region of exciton absorption of CdS. Fiz. tver. tela 7 no.2:670-672 F '65. (MIRA 18:8)

1. Leningradskiy gosudarstvennyy universitet.

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ZHILICH, A.G.; MONOZON, B.S.

Behavior of a hydrogen-like system in a high magnetic field.
Vest. LGU 20 no.16:26-35 '65. (MIRA 18:9)

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ANOKHIN, S.B.; ZHILICH, A.G.

Electrons of large radius localized in a charged impurity center.
Vest. LGU 20 no.4:36-42 '65. (MIRA 18:4)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILICH, A.G.; MAKAROV, V.P.

Band structure of cuprous oxide. Fiz. tver. tela 3 no.2:585-587 F '61. (MIRA 14:6)

1. Leningradskiy gosudarstvennyy universitet.
(Copper oxide)
(Energy band theory of solids)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILICH, A.G.; MAKAROV, V.P.

Band structure of cuprous oxide. Vest.LGU 16 no.10:13-30 '61.
(MIRA 14:5)
(Cuprous oxide crystals) (Energy-band theory of solids)

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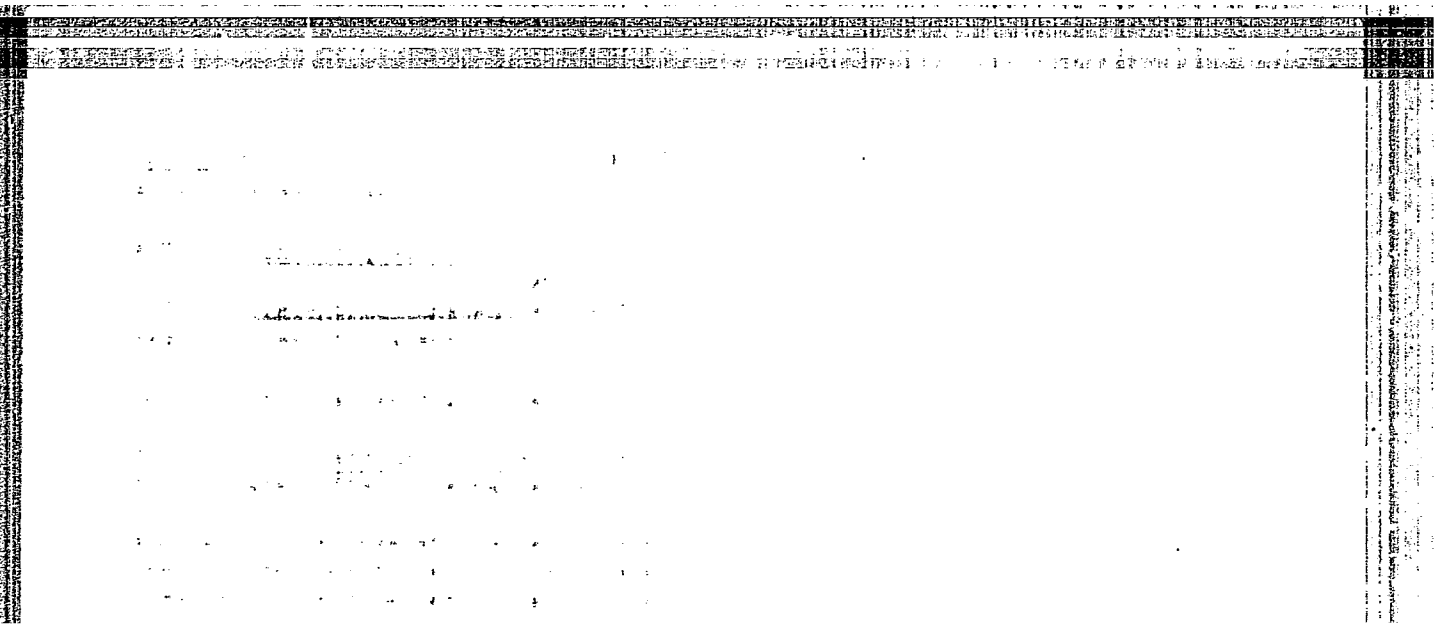

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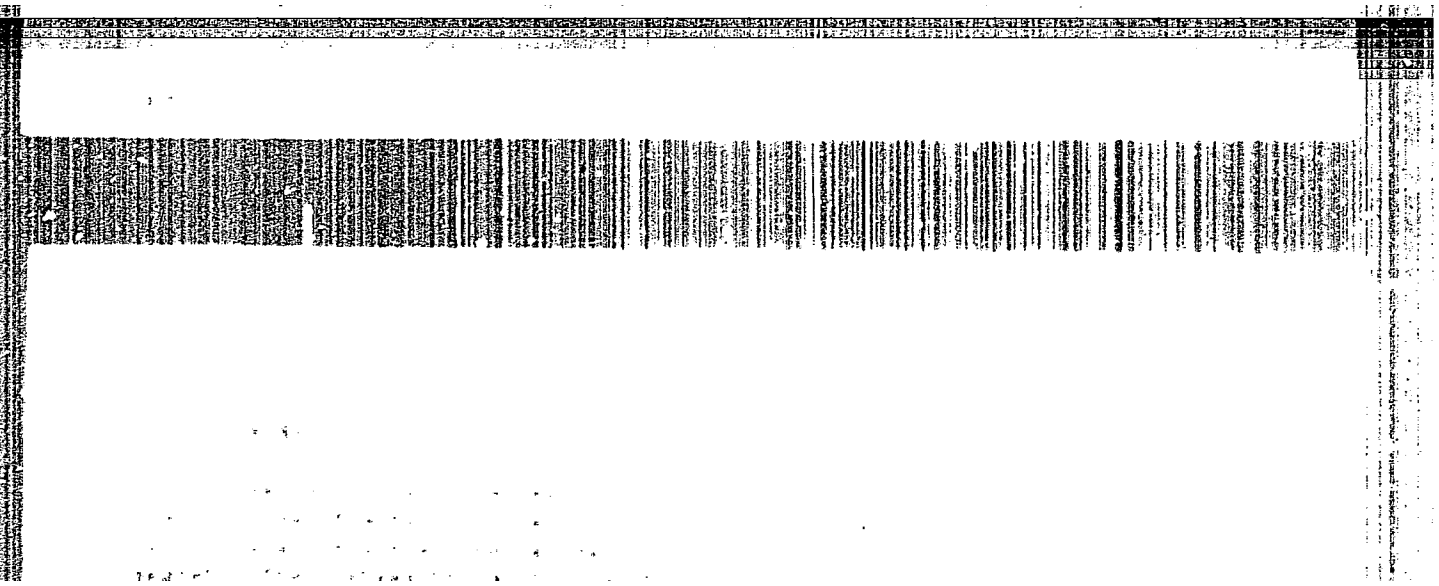

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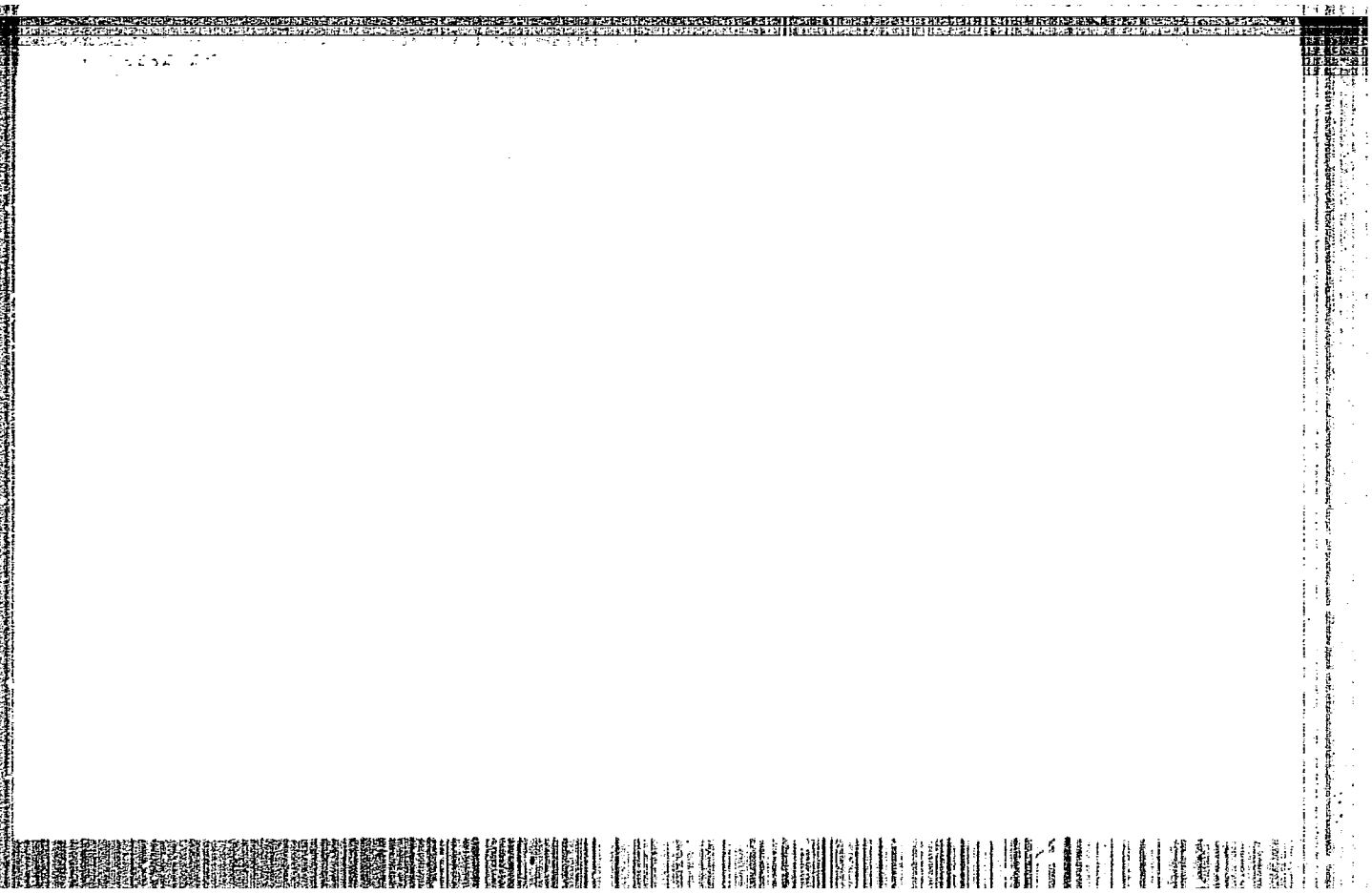

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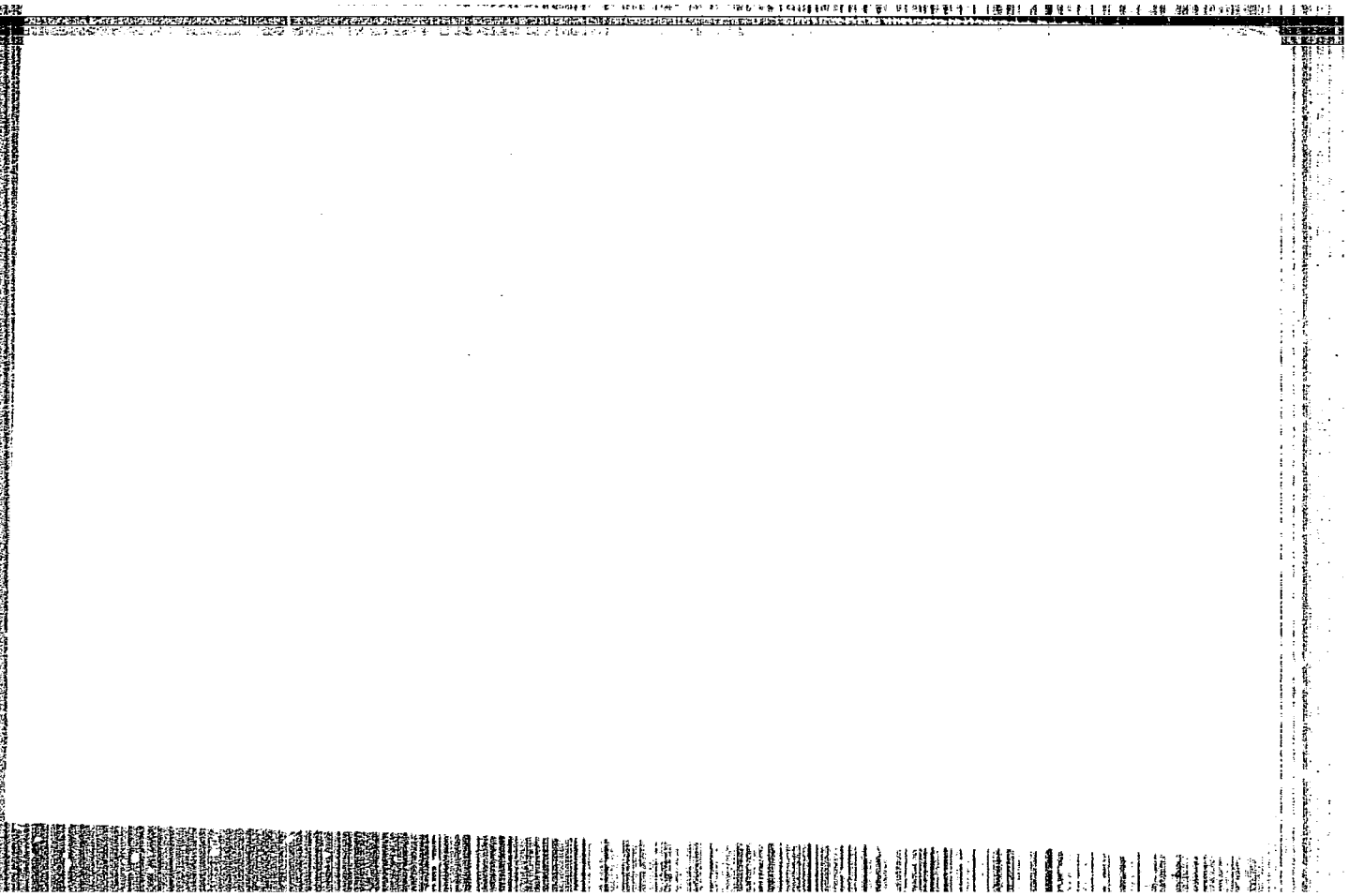

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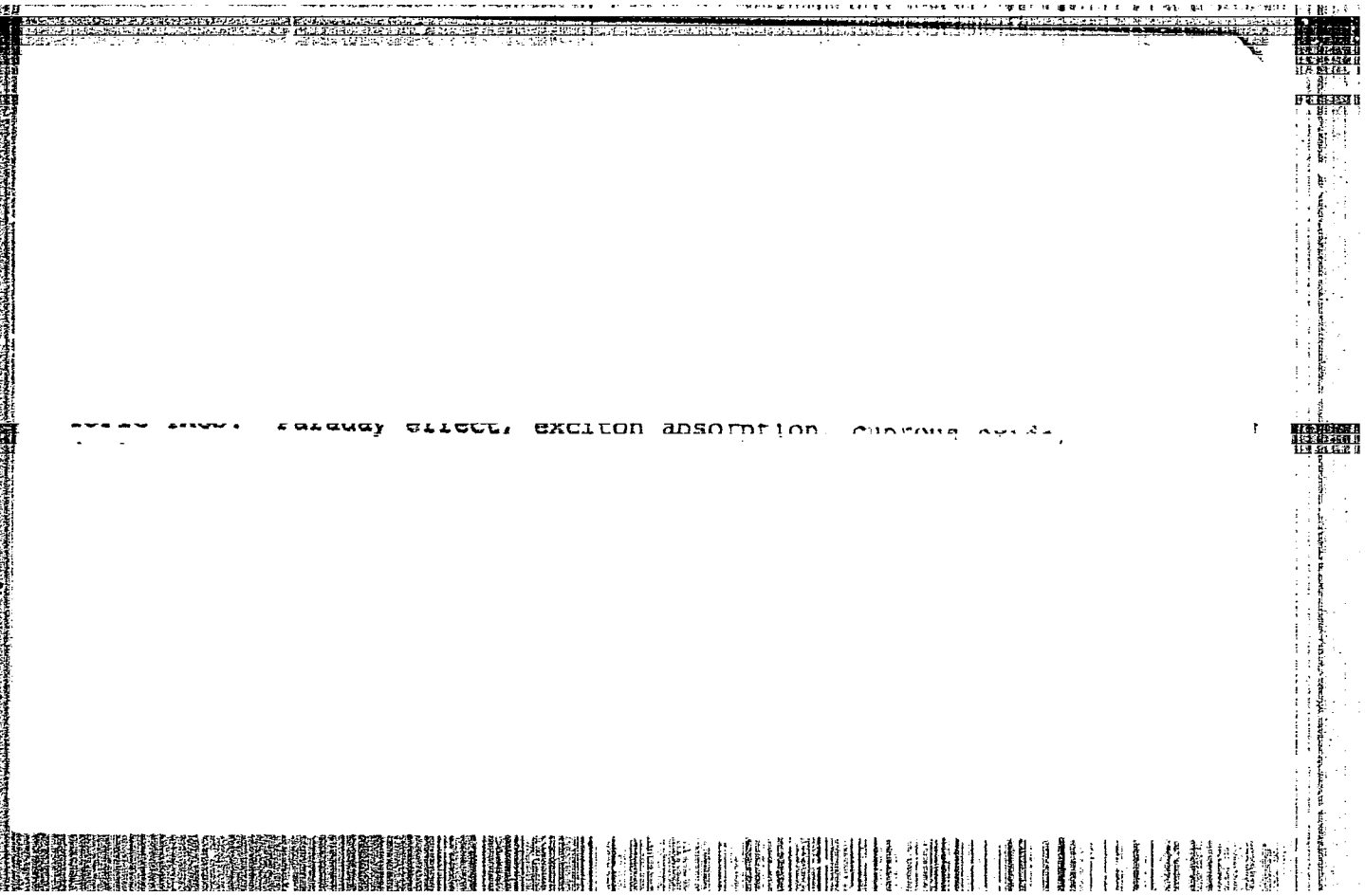

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APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILICH, A.G.

Dielectric constant and the magnetic field inversion effect in the domain of exciton absorption in the CdS crystal. Vest.LGU 20 no.22:29-37 '65.

(MIRA 18:12)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILICHEV, V. G.

VNII (-1946-)

"Sectional Countersinks" Stanki I Instrument, 17, Nos. 7-8, 1946

BR-52059019

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILICHEV, V.G.

Surface smoothness designated according to All-Union State Standard 2789-51, and machining methods of achieving it. Stan.i instr. 24 no.12: 26-30 D '53. (MLRA 7:1)
(Metals--Finishing) (Machine-shop practice)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILICHEV, V.G.

USSR/ Miscellaneous - Tools

Card 1/1 ; Pub. 103 - 20/29

Authors ; Zhilichev, V. G.

Title ; Sectional reamer

Periodical ; Stan. i instr. 9, 35-36, Sep 1954

Abstract ; The construction of a sectional reamer is described. Sectional reamers, after a certain amount of wear, can easily be restored by axial displacement of the knife along the slope of the rifling. The mode of operation of sectional reamers is explained. Drawings.

Institution ; ...

Submitted ; ...

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILIN, A.

Collective farms change to year-round building. Sel'.stroi. 11 no.10:7-8 O '56. (MLRA 9:12)

1. Nachal'nik Gor'kovskogo oblastnogo upravleniya po stroitel'stvu v kolkhozakh.
(Gorkiy Province--Building)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILIN, A.

The Kama River at Perm can be kept free of ice. Rech. transp. 20 no.11:42 N '61. (MIRA 15:1)

1. Nachal'nik Permskogo passazhirskogo agentstva Kamskogo parokhodstva.
(Kama River--Ice on rivers, lakes, etc.)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

MATSEPURO, M.; ZHILIN, A.; OGLOBLIN, K.S., red.; MAYBORODA, M.I., tekhn. red.

[Over-all mechanization of the procurement of peat for fertilizing] Kompleksnaia mekhanizatsiia zagotovki torfa na udobrenie. Moskva, Goskul'tprosvetizdat, 1954. 14 p. (MIRA 16:7)

(Peat) (Fertilizers and manures)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

BELORUSETS, Esfir' Arnol'dovna; ZHILIN, Arkadiy Andreyevich;
CHERNYAYKIN, V.A., red.; GALAKTIONOVA, Ye.N., tekhn. red.

[The Skoda-1201 motortruck]Avtomobil' Shkoda-1201. Moskva,
Avtotransizdat, 1962. 116 p. (MIRA 15:11)
(Motortrucks)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

LOBKO-LOBANOVSKIY, M.I.; ZHILIN, A.F.

Biology of the reproduction of Kamchatka stone capercaillie Tetrao urogalloides kamtschaticus Kittlis. Ornitologiia no.5: 164-165 '62. (MIRA 16:2)
(Kamchatka Valley--Capercallie)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

L 00650-67 EWT(m)/T/EWP(t)/ETI IJP(c) GD/JD

ACC NR: AT6016346 (N) SOURCE CODE: UR/0000/65/000/000/0104/0109

AUTHORS: Kunin, N. F.; Zhilik, K. K.; Voropayev, A. G.; Samokhval, V. V. 18

ORG: Belorussian State University im. V. I. Lenin (Belorusskiy gosudarstvennyy universitet) 17 B+1

TITLE: Thermal treatment of silver, copper, and tin vacuum condensates 27 27 27

SOURCE: AN UkrSSR. Podvizhnost' atomov v kristallicheskoy reshetke (Mobility of atoms in crystal lattice). Kiev, Izd-vo Naukova dumka, 1965, 104-109

TOPIC TAGS: ~~thin~~ metal film, silver, copper, tin, metal heat treatment, activation energy

ABSTRACT: The laws for stabilizing the properties of silver, tin, and copper thin films are investigated in order to remove the data scatter in their properties caused by the method of film preparation and to study the nature of the defects present in the freshly deposited films. The films were deposited on a glass substrate at room temperature in a 10^{-4} mm Hg vacuum. After deposition, the metal films were spontaneously aged at room temperature for 50 hrs during which time their resistance decreased gradually. The heat treatment for tin was made at 150C in hydrogen as well as in air, without an irreversible change in its resistance. The heat treatment for silver was at 70--120C and for copper at 150--200C. The results are shown on graphs and tables. Plots are given of resistance versus time, relative change in film resistance versus

Card 1/2

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

L 00650-67

ACC NR: AT6016346

time, activation energy as a function of temperature, and curves of resistivity versus film thickness. The results show that in freshly deposited silver and copper films there exist many structural defects with widely varying spectra of activation energies. Also, the heat treatment stabilizes the film properties of all three metals. Orig. art. has: 4 formulas, 4 figures, and 2 tables.

SUB CODE: 11/ SUBM DATE: 10Nov64/ ORIG REF: 003/ OTH REF: 002

Card 2/2 pb

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

L 25897-77 EWT(l)/EWT(m)/EWP(w)/T/EWP(t) IJP(c) JD/GG

ACC NR: AP6010399 SOURCE CODE: UR/0126/66/021/003/0346/0350

AUTHOR: Zhilik, K. K.

ORG: Belorussian State University im. V. I. Lenin (Belorusskiy gosuniversitet)

TITLE: The electric and thermoelectric properties of thin copper films

SOURCE: Fizika metallov i metallovedeniye, v. 21, no. 3, 1966, 346-350

TOPIC TAGS: copper film, resistivity, temperature, electric property, thermal emf, thermoelectric property, electron scattering, free electron

ABSTRACT: The relationship between the resistivity ρ and absolute thermo-emf α of thin copper films at various temperatures is studied. An expression derived for calculating partial thermo-emf's caused by various scattering mechanisms is:

$$\alpha = \alpha_1 + \frac{\rho_2 (\alpha_2 - \alpha_1)}{\rho_{total}},$$

where α_1 is the partial thermo-emf caused by a definite scattering mechanism. It is assumed that the partial thermo-emf is a function of the nature of the defects and not of their concentration. In the experimental part, the films were deposited on glass substrates in a vacuum of 10^{-4} mm Hg. The measurements of $\alpha(T)$ and $\rho(T)$

Card 1/2 UDC: 539.292:537.3+536

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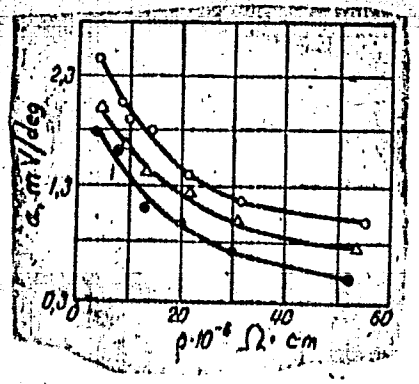
were made in a cryostat at a pressure of 10^{-3} mm Hg (see Fig. 1).

Fig. 1. Absolute thermo-emf of unannealed copper films versus resistivity (○, △, ● —at 272, 223, 173K, respectively).



The amount of surface scattering in annealed thin films is found to increase with a decrease in thickness. It is assumed that the mechanism of electron scattering by the surface is different from that produced by defects. "The author thanks Professor N. F. Kunin for guiding the work." Orig. art. has: 5 graphs and 7 formulas.

SUB CODE: 11, 20/ SUBM DATE: 25Nov64/ ORIG REF: 003/ OTH REF: 002

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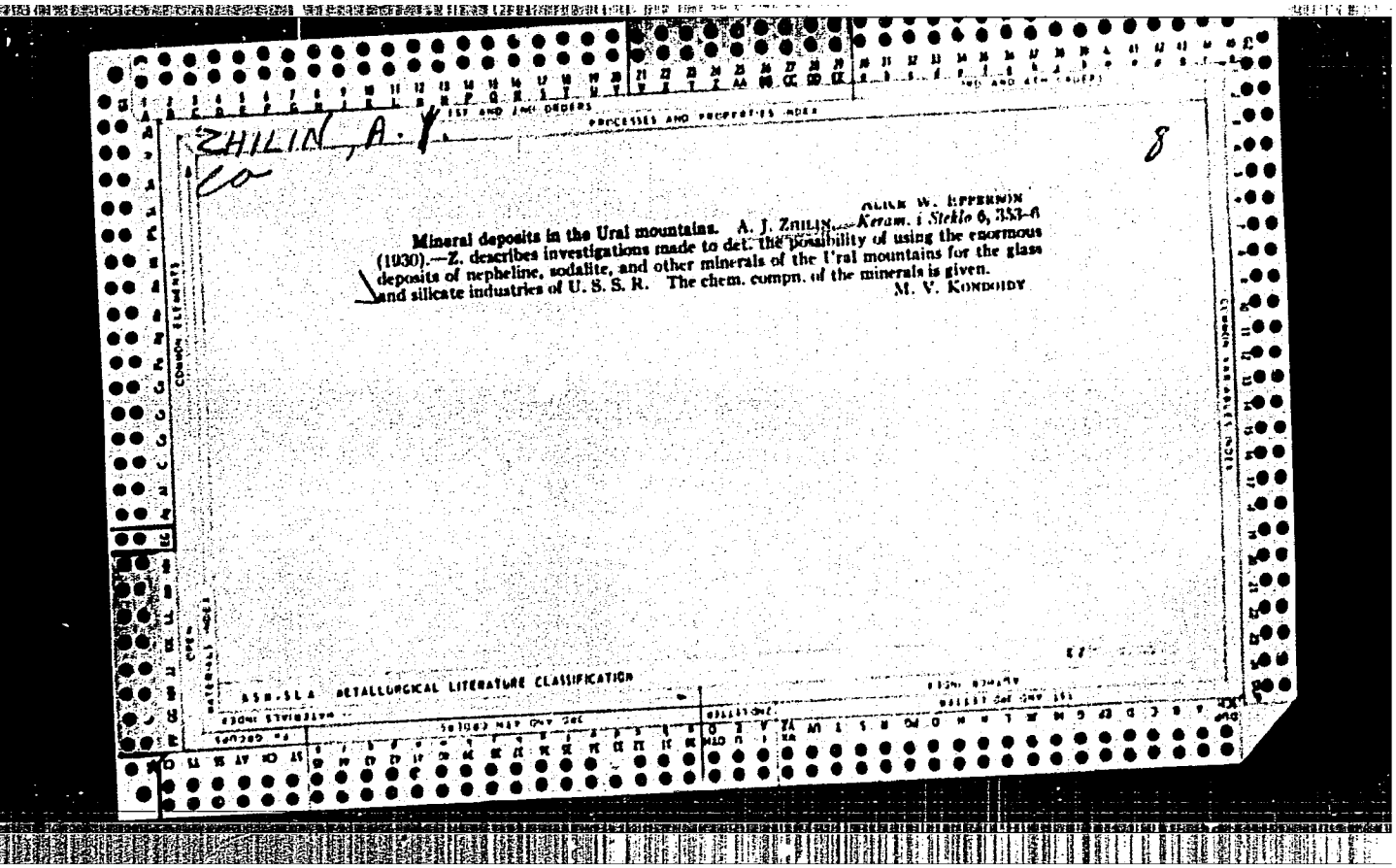

ZHILIN, A. Y.

Ca

8

Mineral deposits in the Ural mountains. A. J. ZHILIN. *Keram. i Steklo* 6, 353–6 (1930).—Z. describes investigations made to det. the possibility of using the enormous deposits of nepheline, sodalite, and other minerals of the Ural mountains for the glass and silicate industries of U. S. S. R. The chem. compn. of the minerals is given.
M. V. KONDOIDY

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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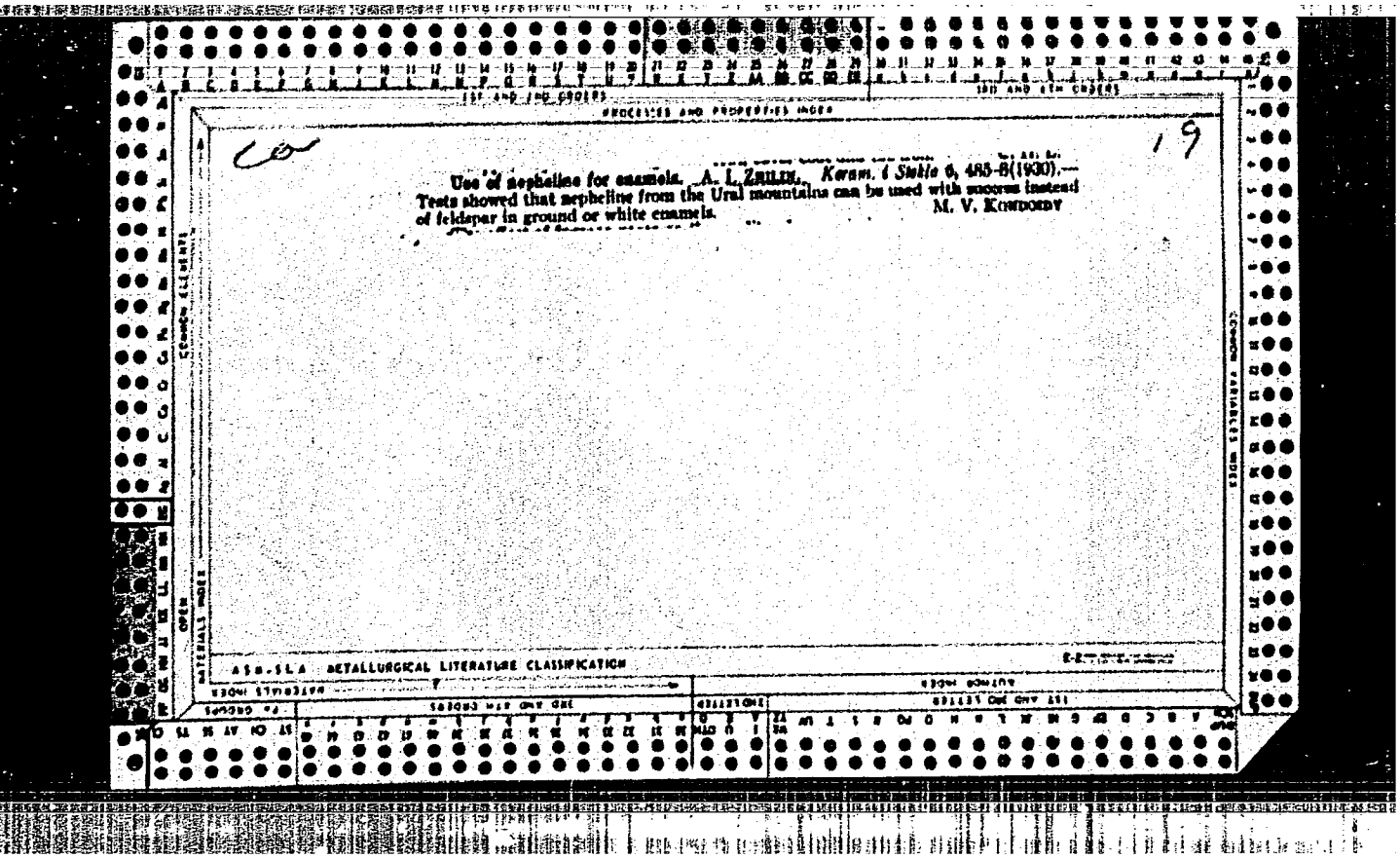
Use of nepheline for enamels. A. L. Zelin. Keram. i Steklo 6, 485-8(1930).—
Tests showed that nepheline from the Ural mountains can be used with success instead
of feldspar in ground or white enamels.
M. V. Kondorsky
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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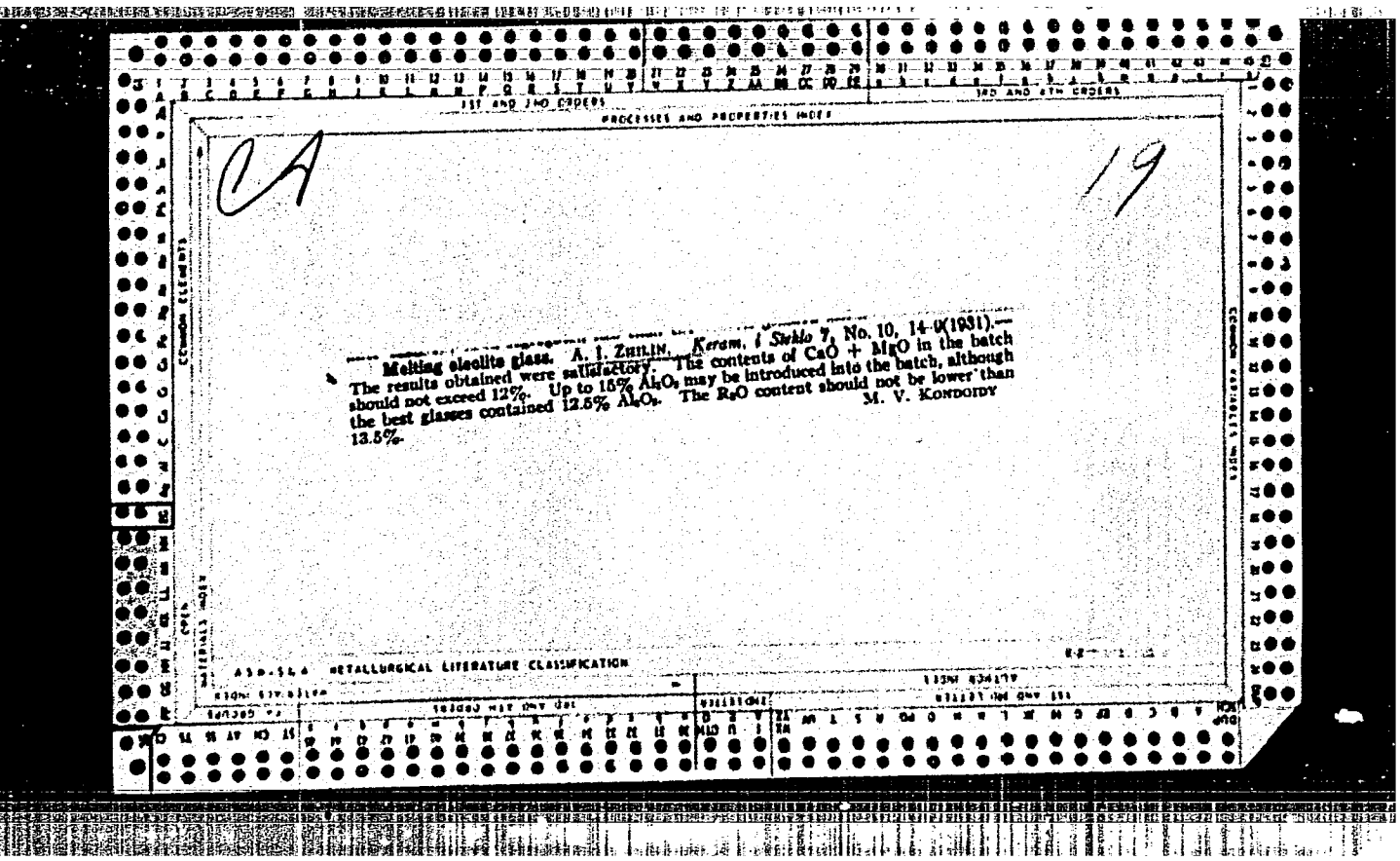

CA 19

Melting sleolite glass. A. I. Zhilin. *Keram. i Steklo* 7, No. 10, 14-9(1931).—The results obtained were satisfactory. The contents of CaO + MgO in the batch should not exceed 12%. Up to 16% Al_2O_3 may be introduced into the batch, although the best glasses contained 12.5% Al_2O_3. The R_2O content should not be lower than 13.5%.

M. V. Kondoidy

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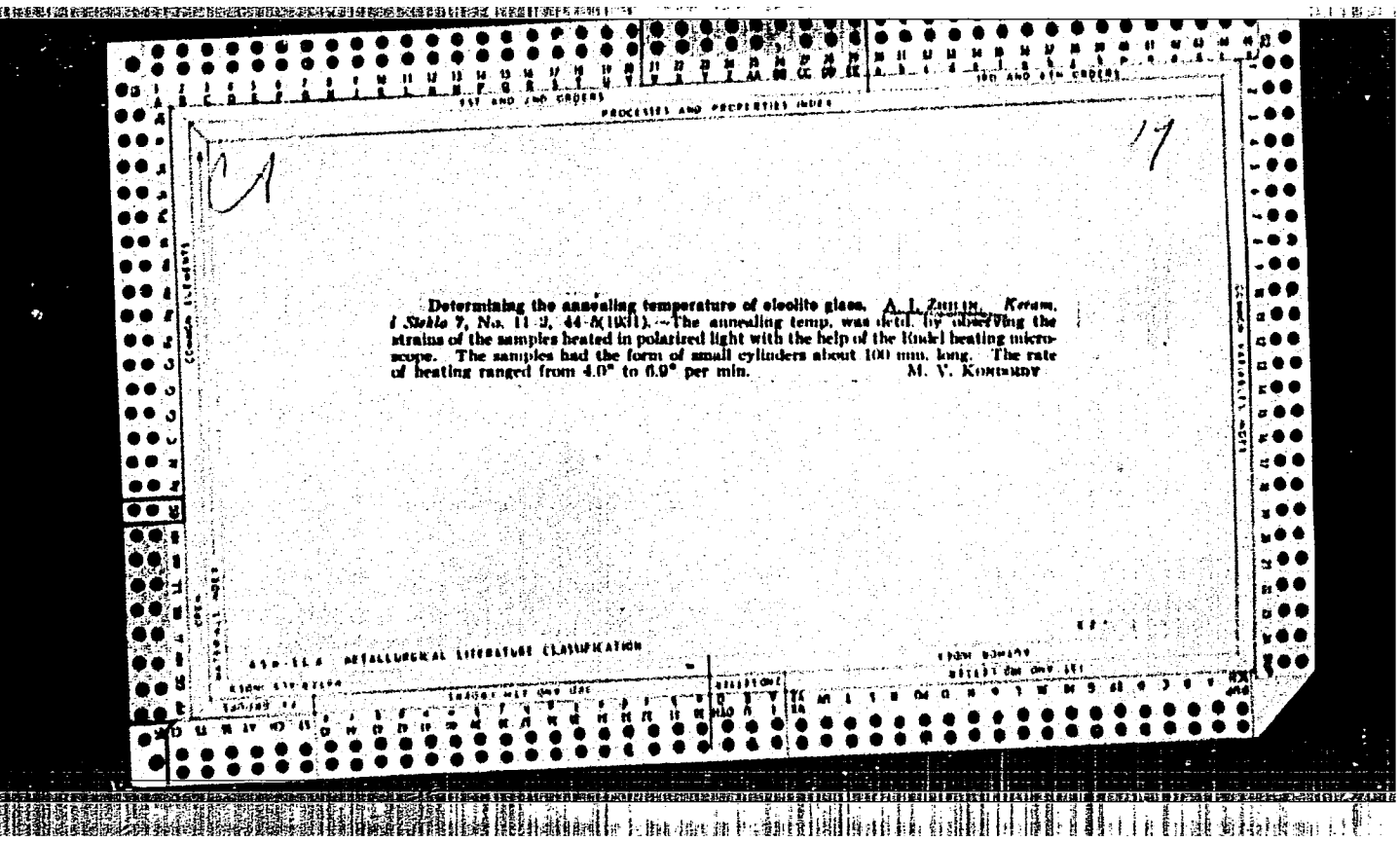
"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8



Determining the annealing temperature of oleolite glass. A. I. Zhilin. *Keram. i Steklo* 7, No. 11, 44–5(1978).—The annealing temp. was detd. by observing the strains of the samples heated in polarized light with the help of the Kudel heating microscope. The samples had the form of small cylinders about 100 mm. long. The rate of heating ranged from 4.0° to 6.9° per min. M. V. Kontarev

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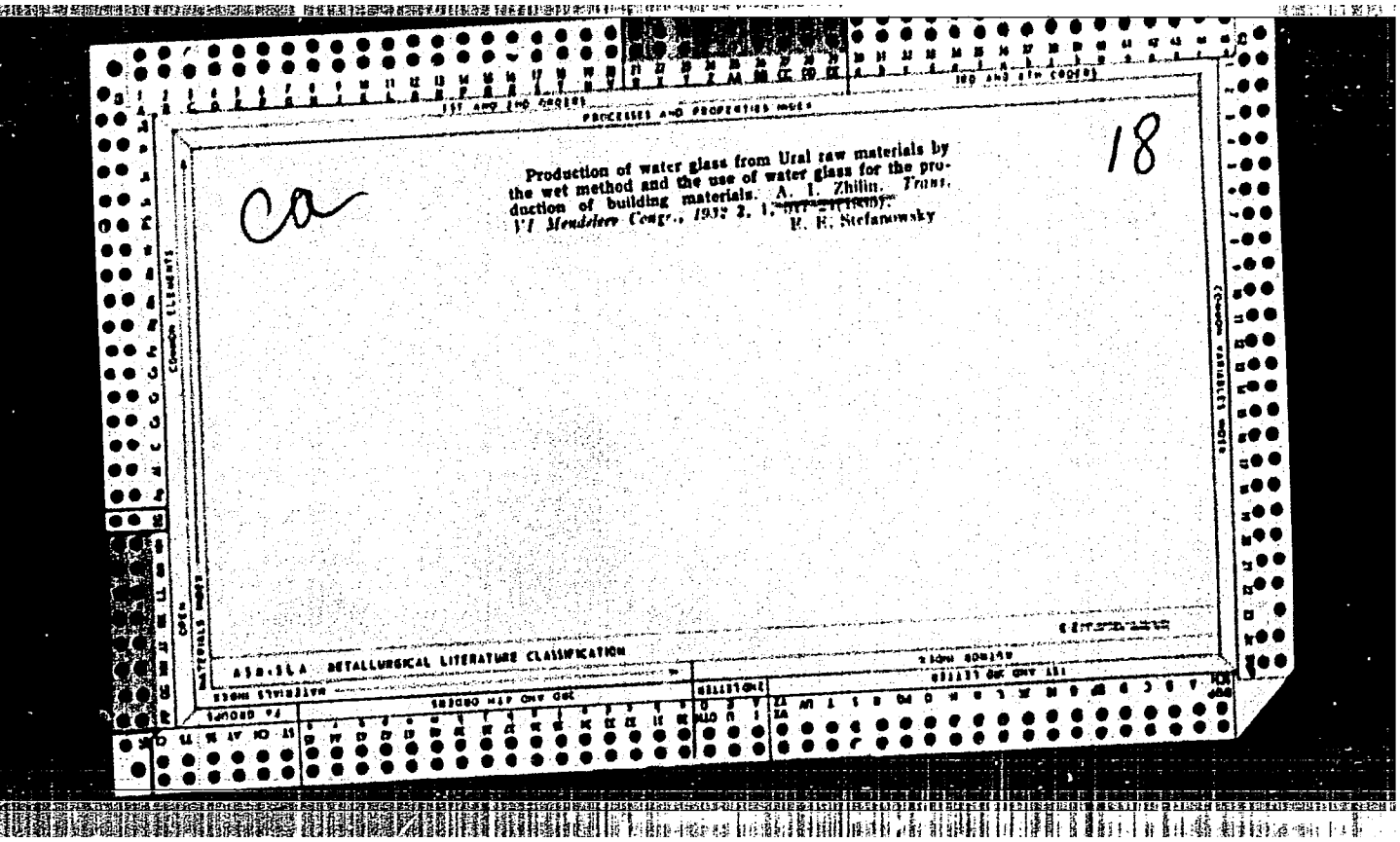
"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8



Ca

18

Production of water glass from Ural raw materials by the wet method and the use of water glass for the production of building materials. A. I. Zhilin. *Trans. VI Mendeleev Congr.*, 1932 2, 1. [illegible]
R. E. Stefanowsky

A58-51A METALLURGICAL LITERATURE CLASSIFICATION

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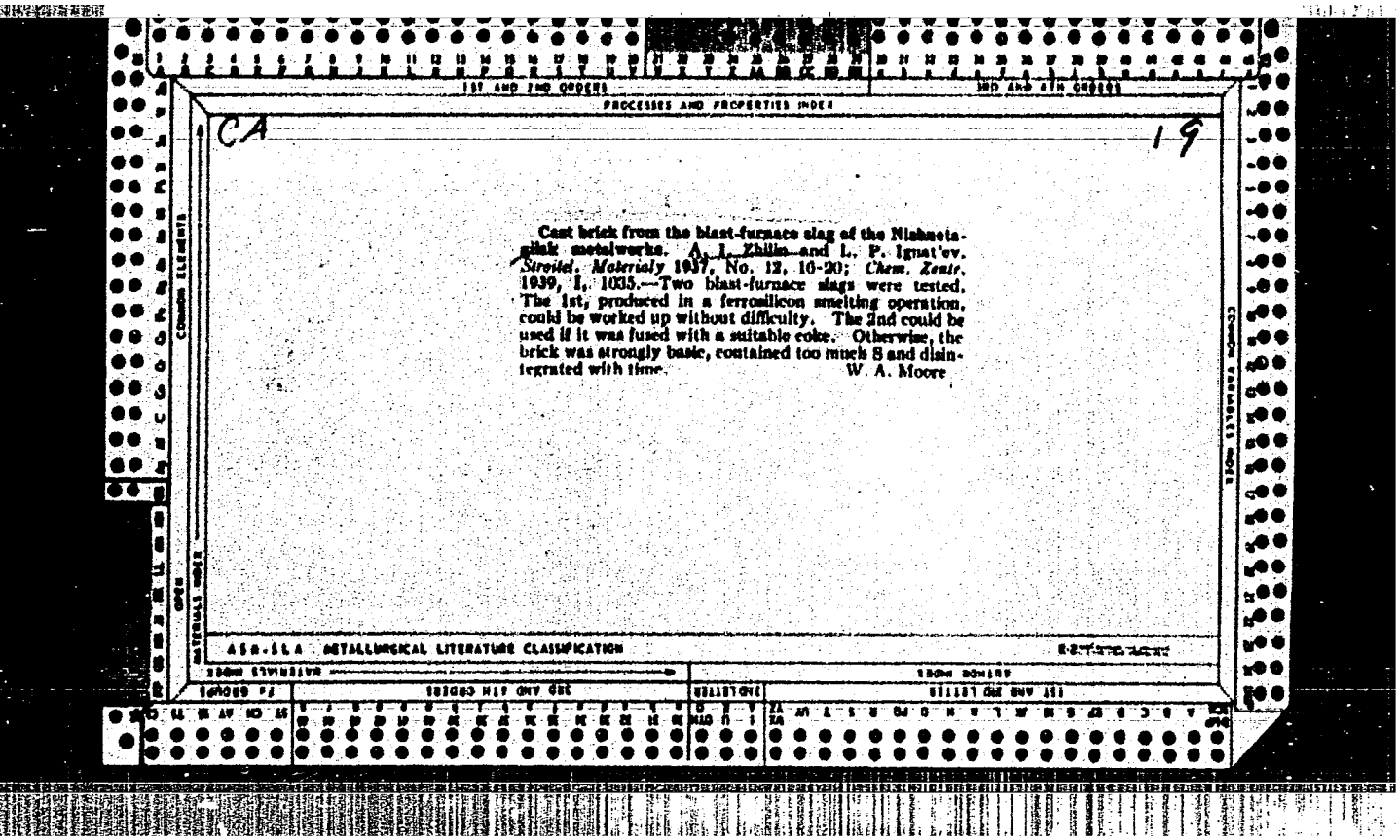

CA 19

Cast brick from the blast-furnace slag of the Nishnetagilsk metalworks. A. I. Zhilin and L. P. Ignat'ev. *Stroitel. Materialy* 1937, No. 12, 10-20; *Chem. Zentr.* 1939, I, 1035.—Two blast-furnace slags were tested. The 1st, produced in a ferrosilicon smelting operation, could be worked up without difficulty. The 2nd could be used if it was fused with a suitable coke. Otherwise, the brick was strongly basic, contained too much S and disintegrated with time. W. A. Moore

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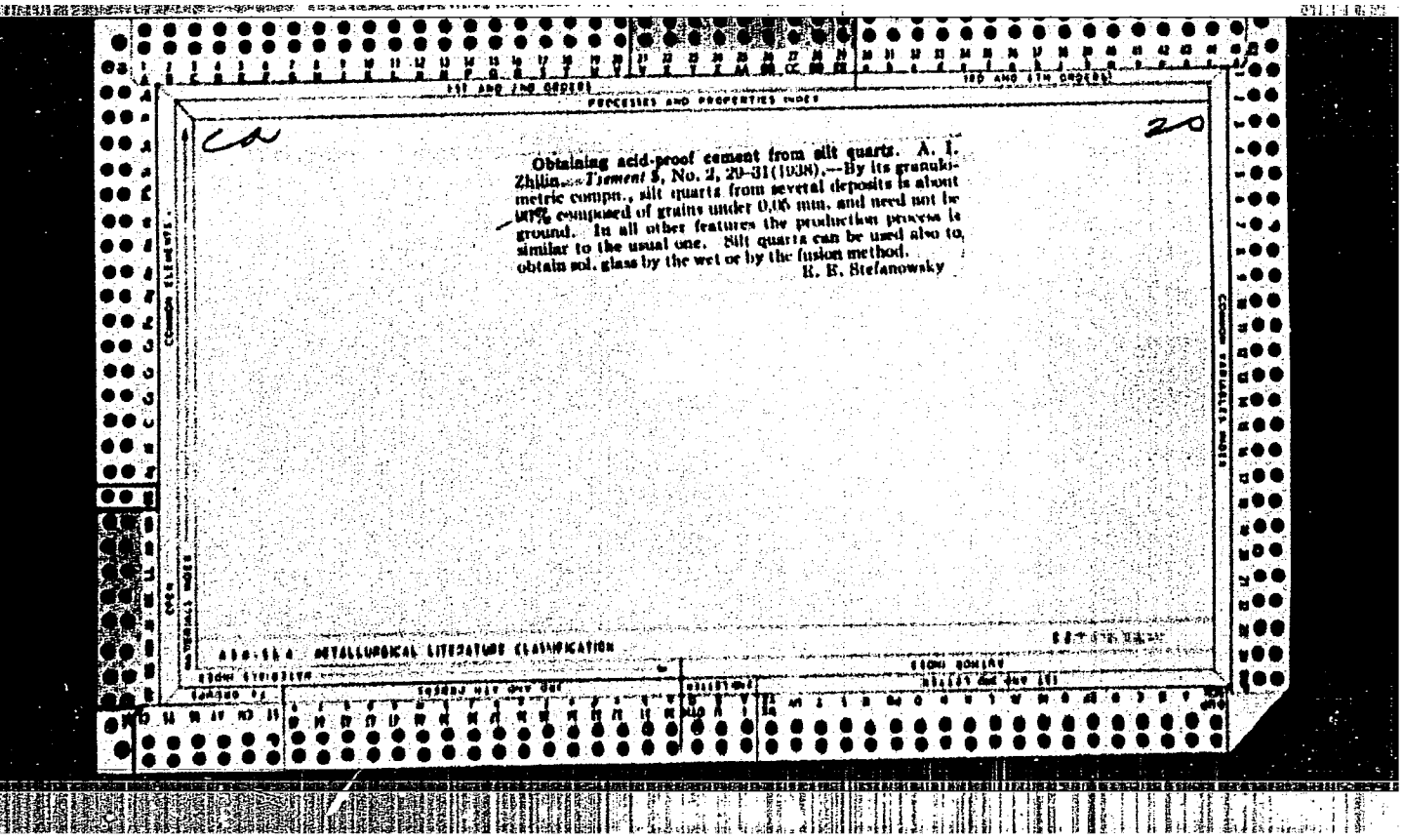

Obtaining acid-proof cement from silt quarts. A. I. Zhilin. *Tsement* 5, No. 2, 29–31 (1938).—By its granulometric compn., silt quarts from several deposits is about 80% composed of grains under 0.05 mm. and need not be ground. In all other features the production process is similar to the usual one. Silt quarts can be used also to obtain sol. glass by the wet or by the fusion method.
R. E. Stefanowsky

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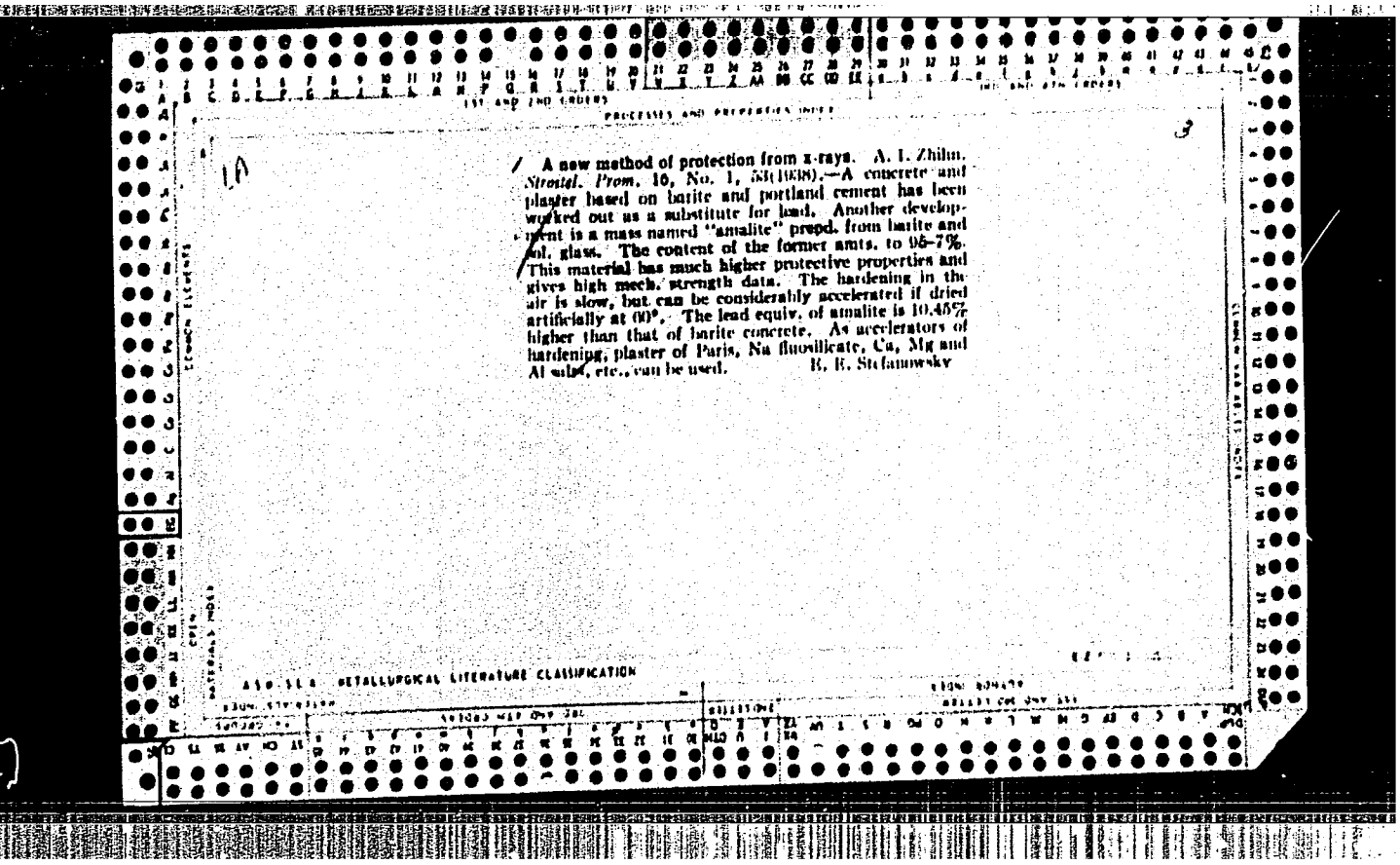

A new method of protection from x-rays. A. I. Zhilin. *Stroitel. Prom.* 16, No. 1, 53(1938).—A concrete and plaster based on barite and portland cement has been worked out as a substitute for lead. Another development is a mass named "amalite" prepd. from barite and sil. glass. The content of the former amts. to 96–7%. This material has much higher protective properties and gives high mech. strength data. The hardening in the air is slow, but can be considerably accelerated if dried artificially at 60°. The lead equiv. of amalite is 10.45% higher than that of barite concrete. As accelerators of hardening, plaster of Paris, Na fluosilicate, Ca, Mg and Al salts, etc., can be used. B. E. Stefanowsky

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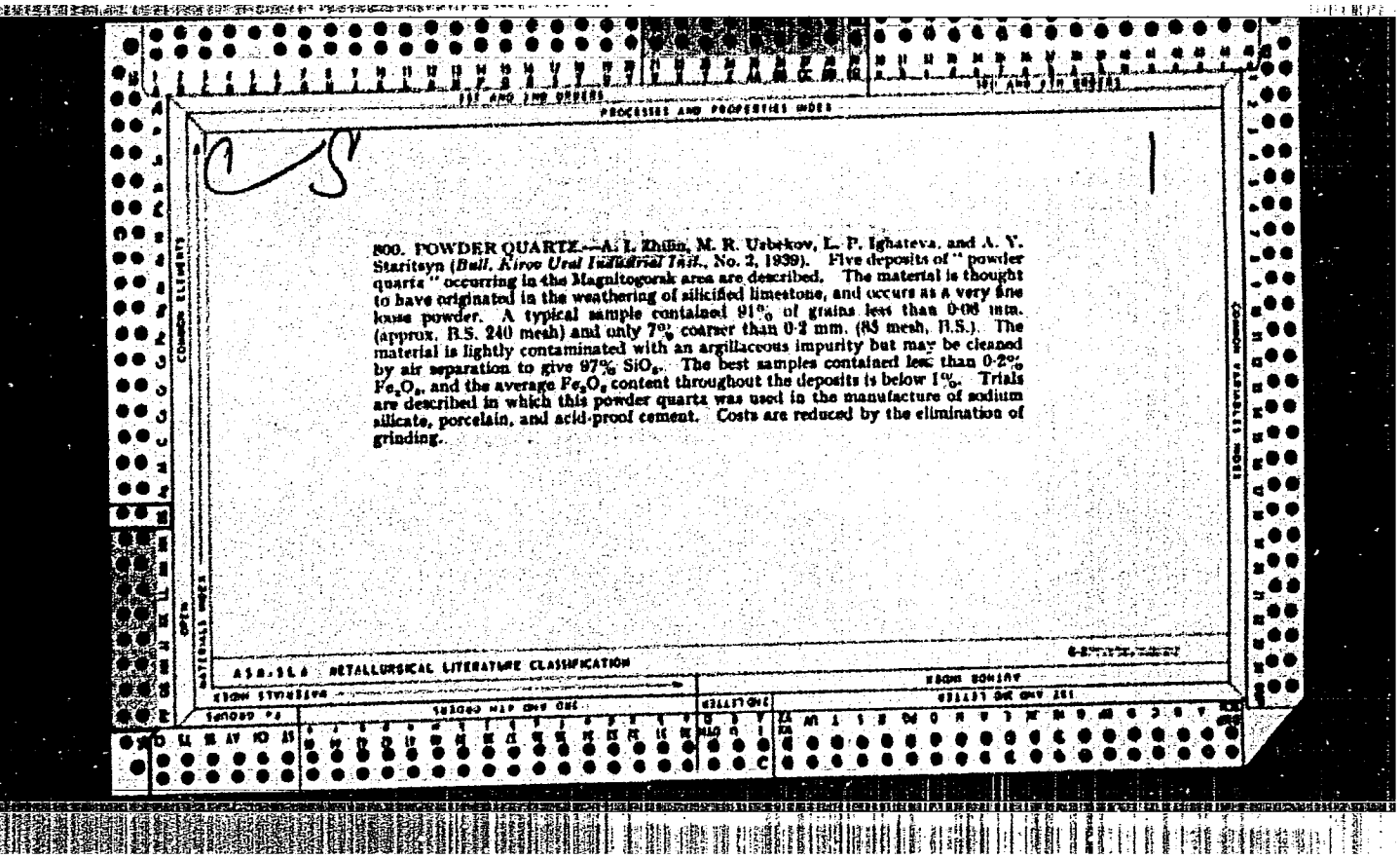

800. POWDER QUARTZ.—A. L. Zhilin, M. R. Usbekov, L. P. Ighateva, and A. V. Starityn (*Bull. Kirov Ural Industrial Inst.*, No. 2, 1939). Five deposits of "powder quartz" occurring in the Magnitogorsk area are described. The material is thought to have originated in the weathering of silicified limestone, and occurs as a very fine loose powder. A typical sample contained 91% of grains less than 0·06 mm. (approx. B.S. 240 mesh) and only 7% coarser than 0·2 mm. (85 mesh, B.S.). The material is lightly contaminated with an argillaceous impurity but may be cleaned by air separation to give 97% SiO_2. The best samples contained less than 0·2% Fe_2O_3, and the average Fe_2O_3 content throughout the deposits is below 1%. Trials are described in which this powder quartz was used in the manufacture of sodium silicate, porcelain, and acid-proof cement. Costs are reduced by the elimination of grinding.

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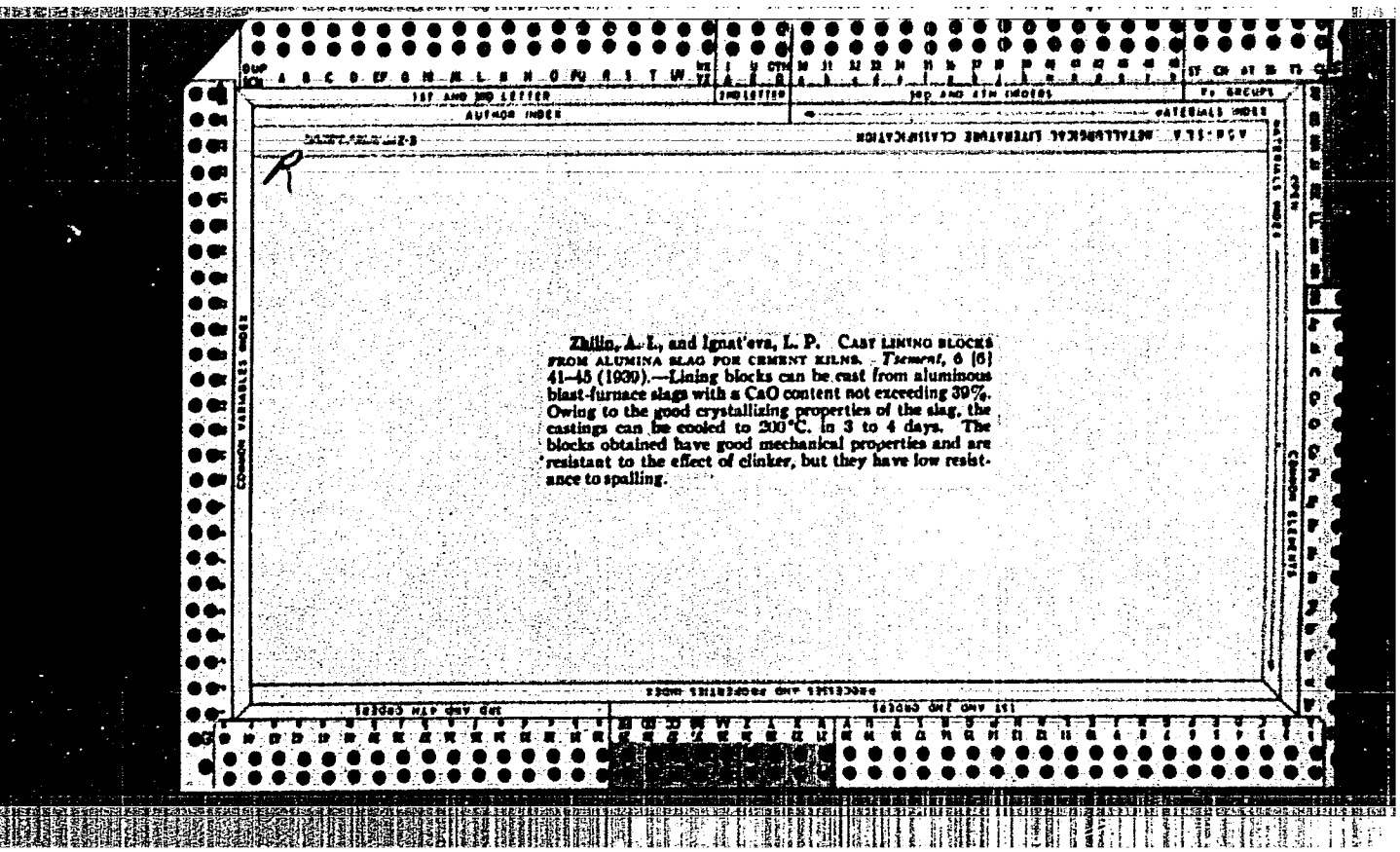

Zhilin, A. L., and Ignat'eva, L. P. CAST LINING BLOCKS FROM ALUMINA SLAG FOR CEMENT KILNS. *Tsement*, 6 (6) 41–45 (1939).—Lining blocks can be cast from aluminous blast-furnace slags with a CaO content not exceeding 39%. Owing to the good crystallizing properties of the slag, the castings can be cooled to 200°C. in 3 to 4 days. The blocks obtained have good mechanical properties and are resistant to the effect of clinker, but they have low resistance to spalling.

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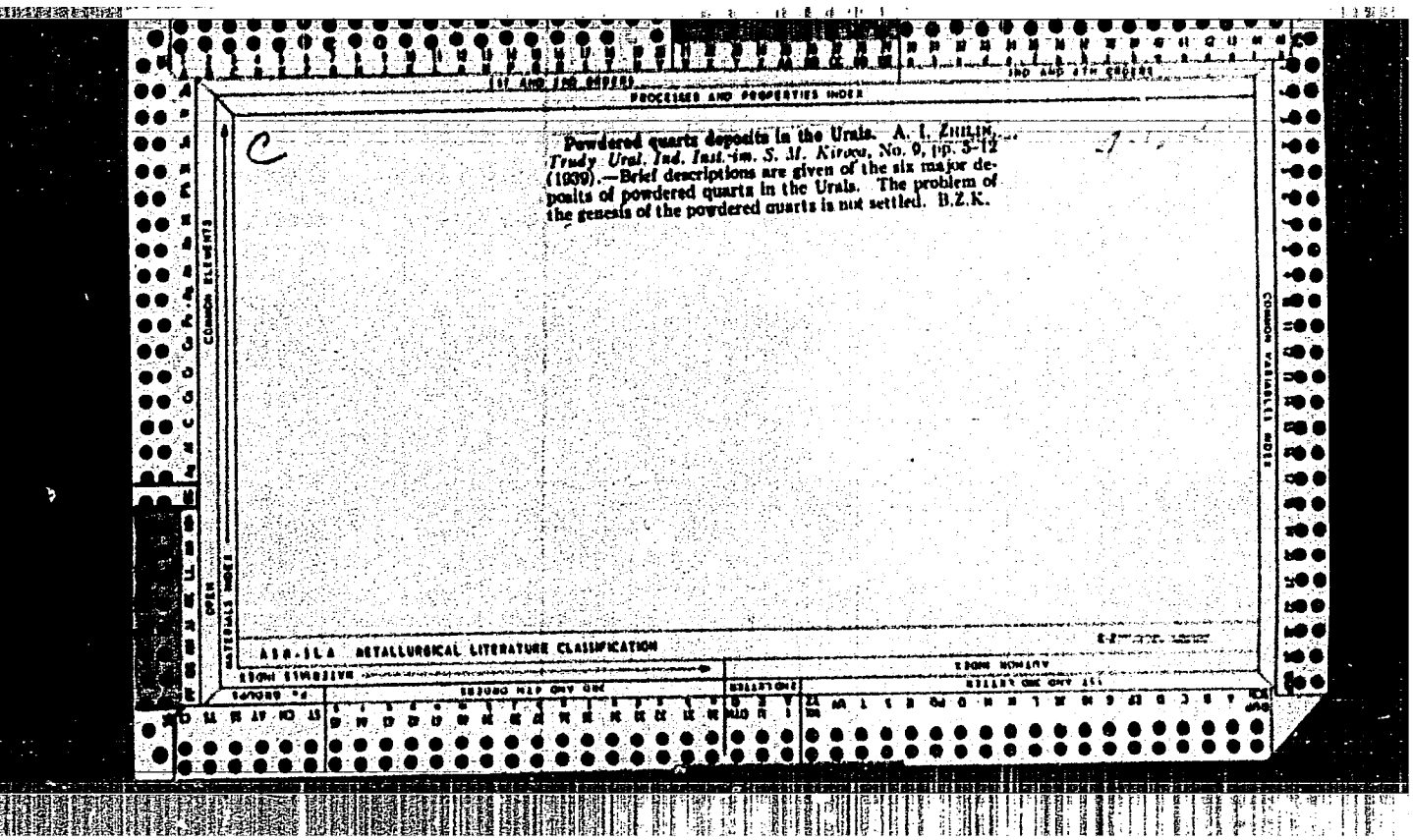

C

Powdered quartz deposits in the Urals. A. I. ZHILIN. *Trudy Ural. Ind. Inst. im. S. M. Kirova*, No. 9, pp. 5-12 (1939).—Brief descriptions are given of the six major deposits of powdered quartz in the Urals. The problem of the genesis of the powdered quartz is not settled. B.Z.K.

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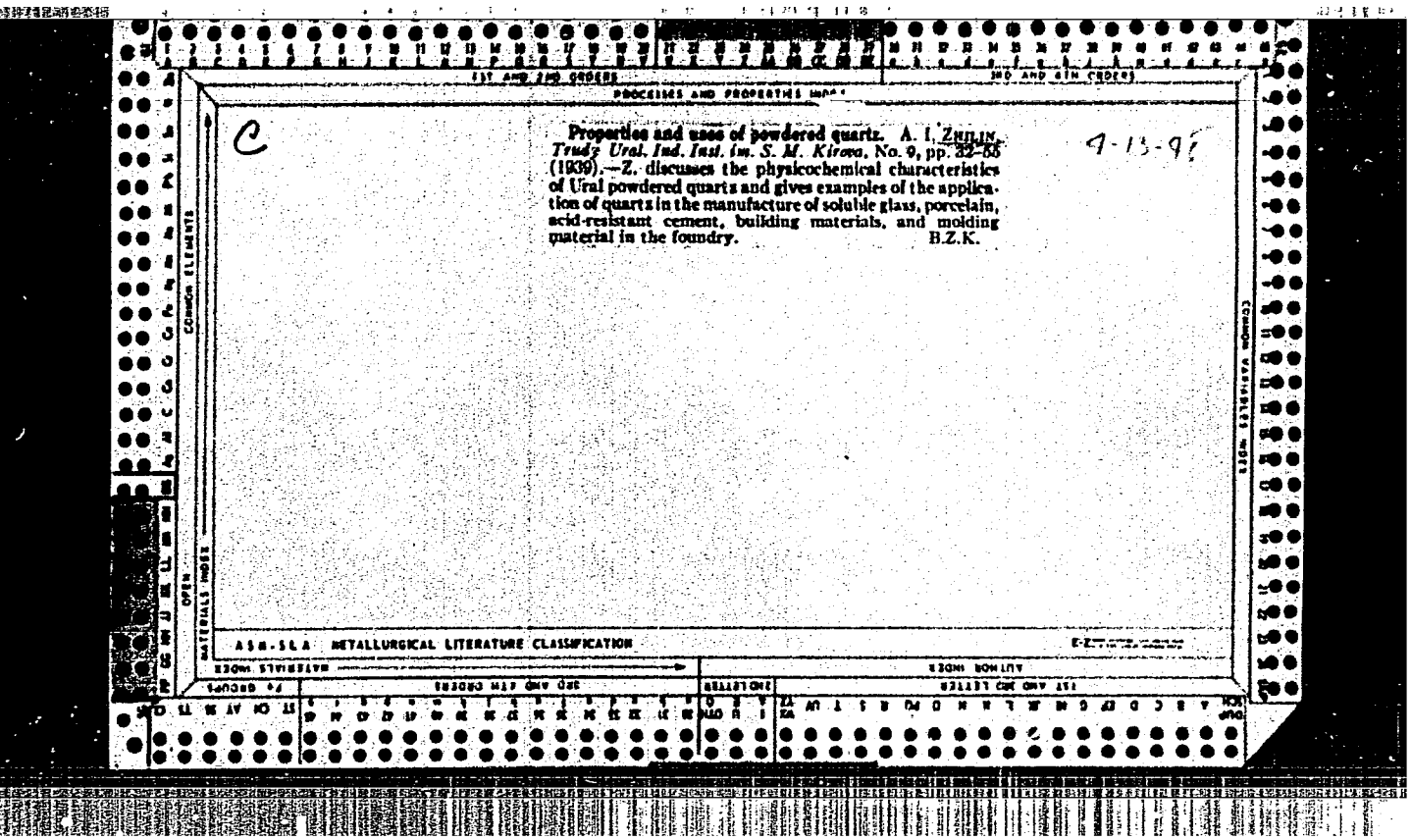

C

9-13-95

Properties and uses of powdered quartz. A. I. Zhitlin. *Trudy Ural. Ind. Inst. im. S. M. Kirova*, No. 9, pp. 22–55 (1939).—Z. discusses the physicochemical characteristics of Ural powdered quartz and gives examples of the application of quartz in the manufacture of soluble glass, porcelain, acid-resistant cement, building materials, and molding material in the foundry. B.Z.K.

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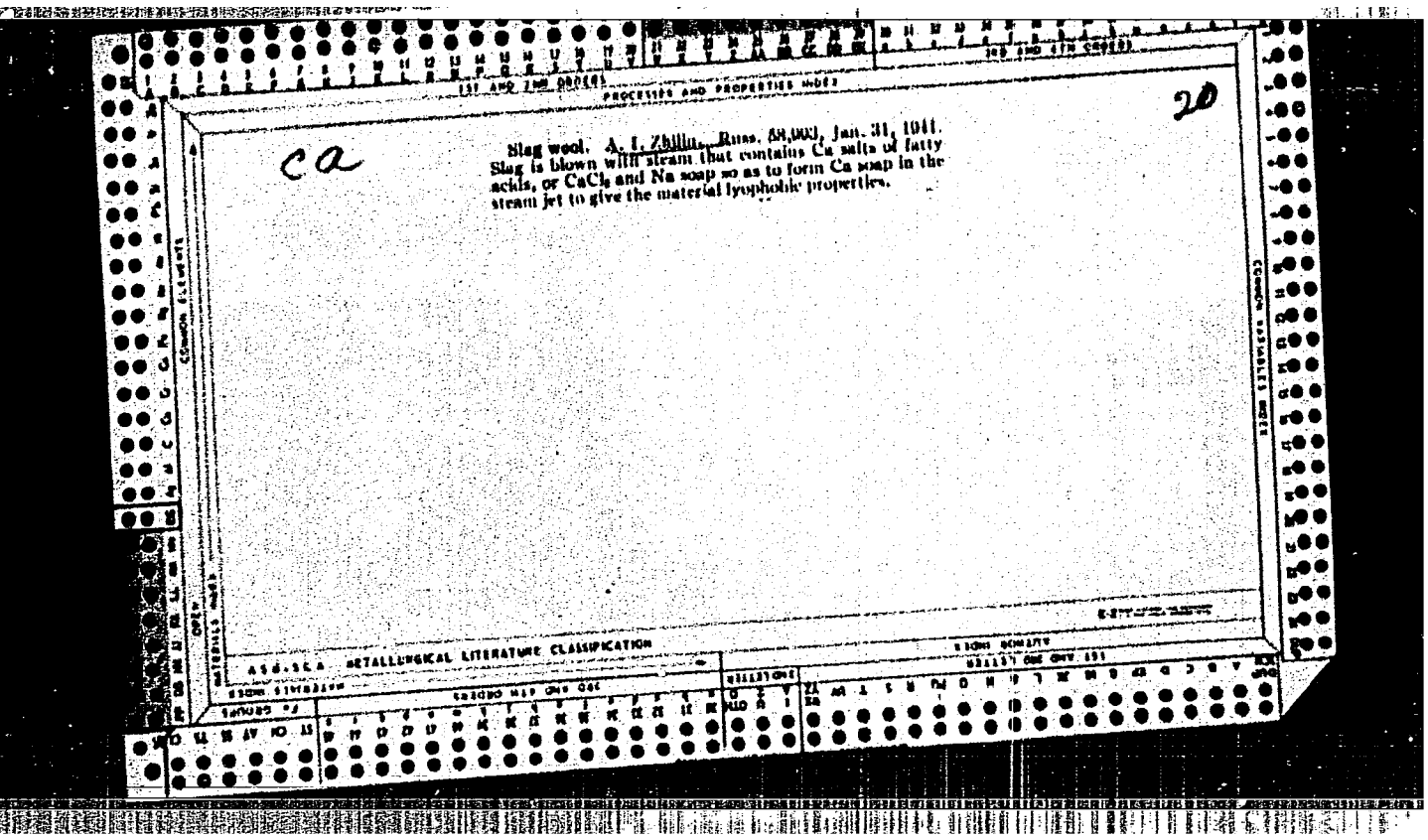
PROCESSES AND PROPERTIES INDEX
20
ca
Slag wool. A. I. Zhilin, Russ. 58,003, Jan. 31, 1941. Slag is blown with steam that contains Ca salts of fatty acids, or $CaCl_2$ and Na soap so as to form Ca soap in the steam jet to give the material lyophobic properties.
METALLURGICAL LITERATURE CLASSIFICATION

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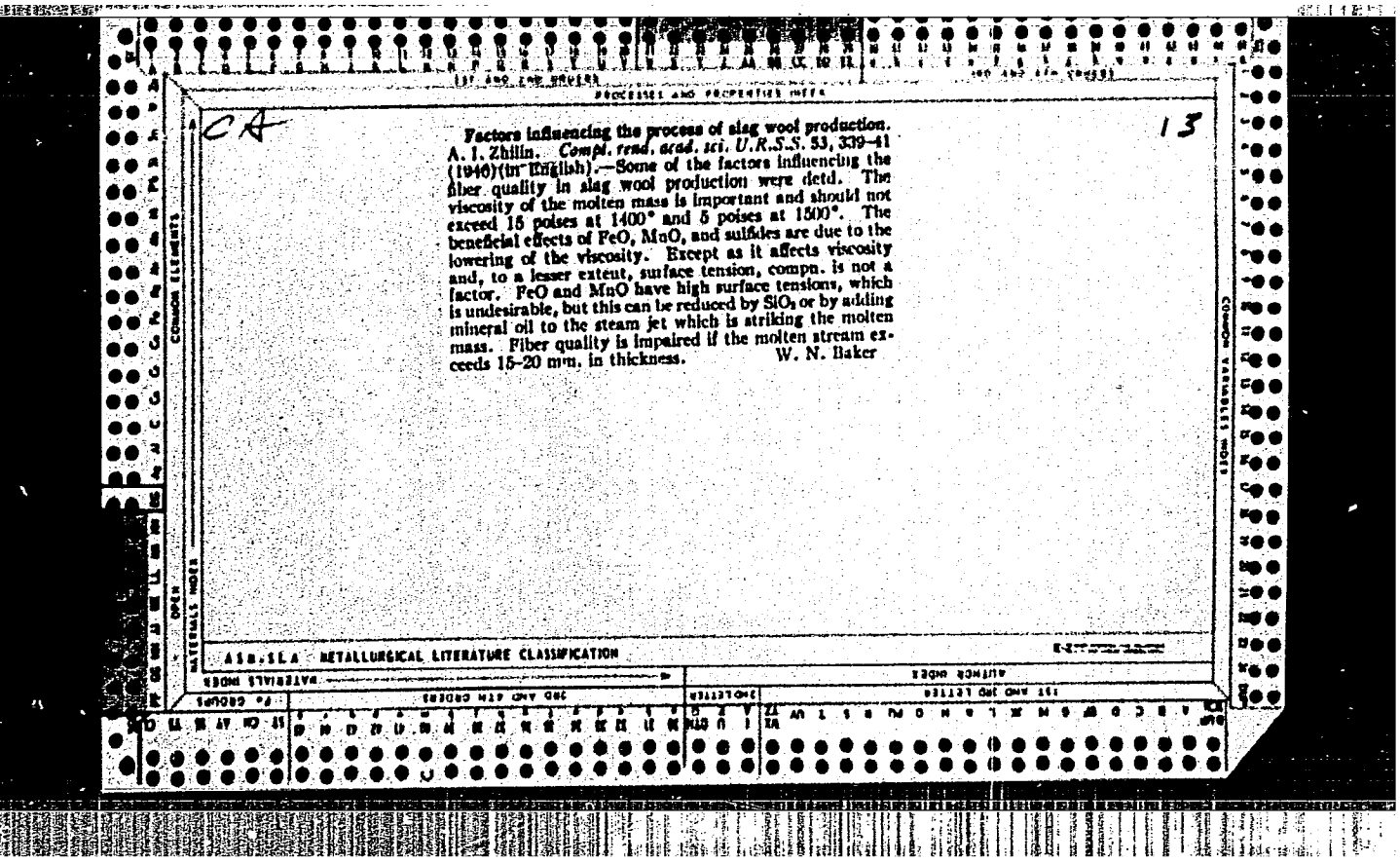

CA

13

Factors influencing the process of slag wool production. A. I. Zhilin. *Compt. rend. acad. sci. U.R.S.S.* 53, 339–41 (1940)(in English).—Some of the factors influencing the fiber quality in slag wool production were detd. The viscosity of the molten mass is important and should not exceed 15 poises at 1400° and 5 poises at 1500°. The beneficial effects of FeO, MnO, and sulfides are due to the lowering of the viscosity. Except as it affects viscosity and, to a lesser extent, surface tension, compn. is not a factor. FeO and MnO have high surface tensions, which is undesirable, but this can be reduced by SiO_2 or by adding mineral oil to the steam jet which is striking the molten mass. Fiber quality is impaired if the molten stream exceeds 15–20 mm. in thickness. W. N. Baker

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILIN, Prof. A. I.

Dr. Technical Sci.

Mbr., Ural Ind. Inst. im. S. M. Kirov, -1946-.

Mbr. Ural Polytechnical Inst. im. A. A. Zhdanov, Gor'kiy, -c1948-.

"Factors Influencing the Process of Slag Wool Production," Dok. AN 53, No. 4, 1946;

"Production of Blocks from Blast Furnace Slag, " Stal', No. 6, 1948;

"The Fluidity of Blast-Furnace Slags at a low Temperature," Dok. AN 59, No. 2, 1948;

"Investigation of Crude Material for the Production of Synthetic Asbestos,"

Zhur. Prik. Khim., 23, No. 11, 1950.

Supv., Physicochem. Sector, Eastern Complex Sci. Res. Inst. of Constr., Sverdlovsk, -1935-;

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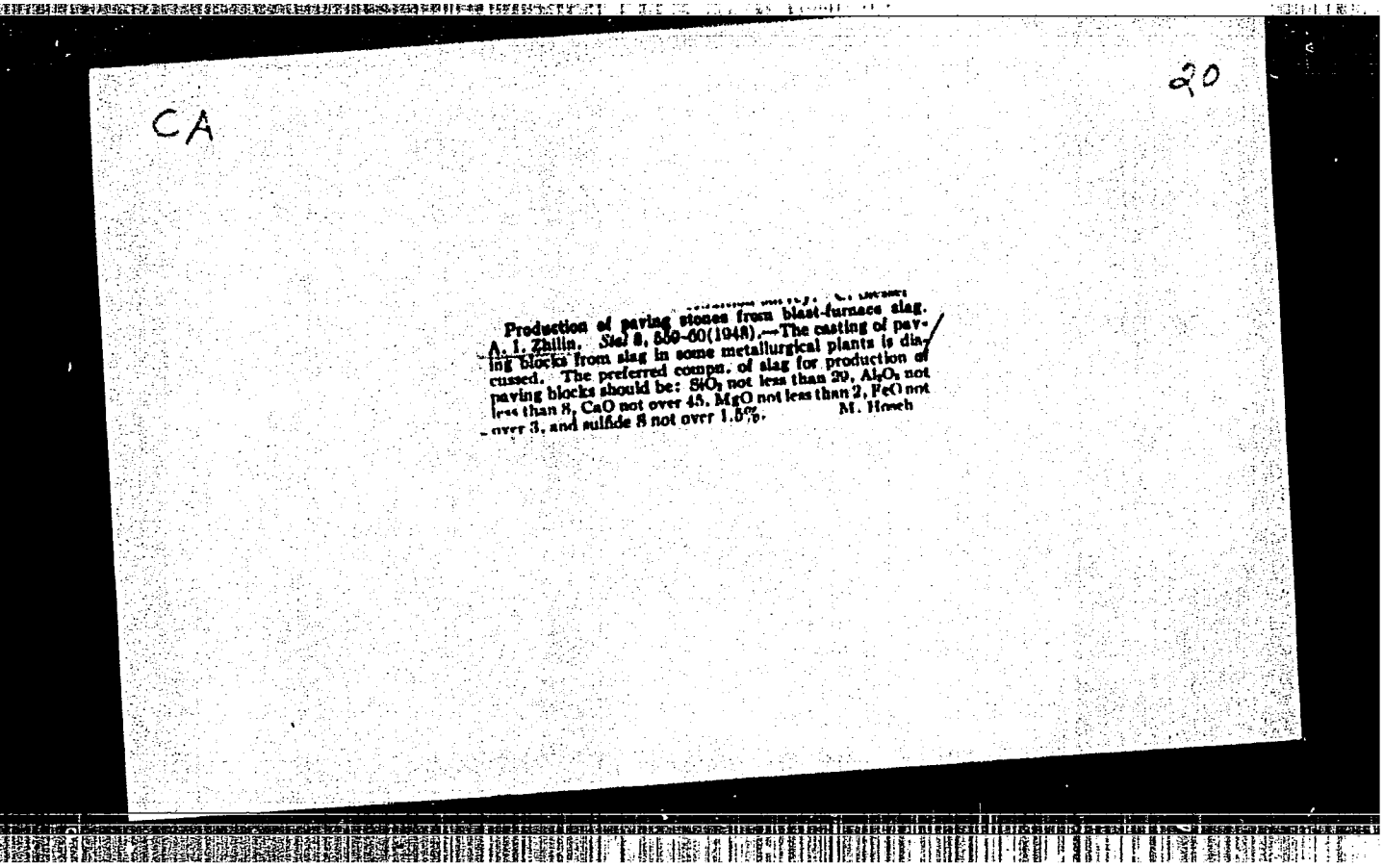

CA

20

Production of paving stones from blast-furnace slag. A. I. Zhilin. *Stal'* 8, 559-60(1948).—The casting of paving blocks from slag in some metallurgical plants is discussed. The preferred compn. of slag for production of paving blocks should be: SiO_2 not less than 29, Al_2O_3 not less than 8, CaO not over 45, MgO not less than 2, FeO not over 3, and sulfide S not over 1.5%. M. Hosch

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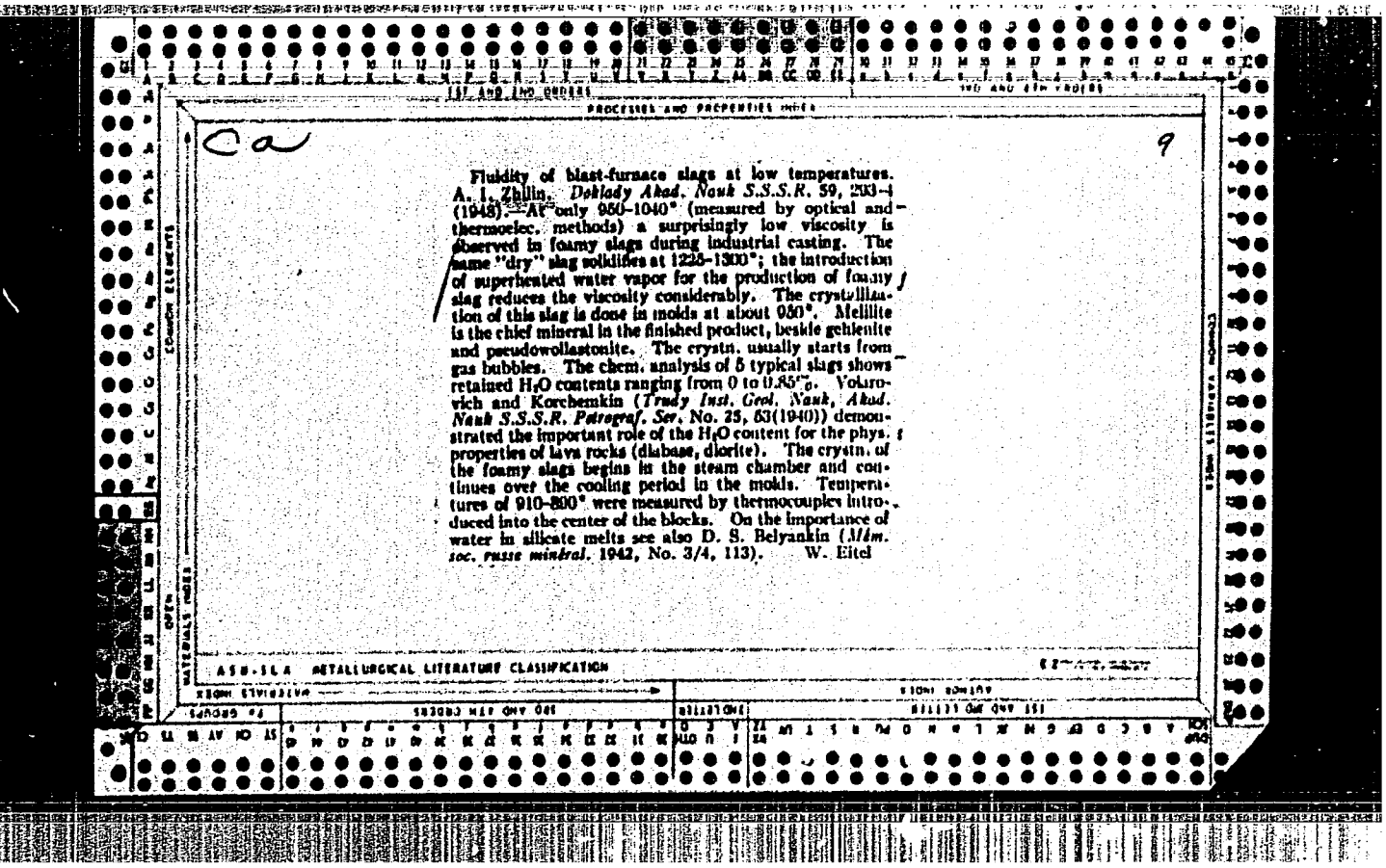

Ca 9

Fluidity of blast-furnace slags at low temperatures. A. I. Zhilin. *Doklady Akad. Nauk S.S.S.R.* 59, 233–4 (1948).—At only 950–1040° (measured by optical and thermoelec. methods) a surprisingly low viscosity is observed in foamy slags during industrial casting. The same "dry" slag solidifies at 1225–1300°; the introduction of superheated water vapor for the production of foamy slag reduces the viscosity considerably. The crystallization of this slag is done in molds at about 950°. Melilite is the chief mineral in the finished product, beside gehlenite and pseudowollastonite. The crystn. usually starts from gas bubbles. The chem. analysis of 5 typical slags shows retained H_2O contents ranging from 0 to 0.85%. Yoharovich and Korchemkin (*Trudy Inst. Geol. Nauk, Akad. Nauk S.S.S.R. Petrograf. Ser.* No. 25, 53(1940)) demonstrated the important role of the H_2O content for the phys. properties of lava rocks (diabase, diorite). The crystn. of the foamy slags begins in the steam chamber and continues over the cooling period in the molds. Temperatures of 910–800° were measured by thermocouples introduced into the center of the blocks. On the importance of water in silicate melts see also D. S. Belyankin (*Mém. soc. russe minéral.* 1942, No. 3/4, 113). W. Eitel

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILIN A. I. FA 170T35

USSR/Chemistry - Heat insulation Nov 50

"Investigation of Crude Material for the Production of Synthetic Asbestos," A. I. Zhilin, Gor'kiy Polytech Inst imeni A. A. Zhdanov, [illegible]

"Zhur Prik Khim" Vol XXIII, No 11, pp 1157-64

Method for testing the crude material was developed with particular attention to determination of the viscosity of silicate melts. Suitable crude materials are naturally occurring minerals, metallurgical slags, and furnace ashes. Some of these materials are described in detail.

[redacted] 170T35

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILIN, A. I.

PHASE I TREASURE ISLAND BIBLIOGRAPHICAL REPORT AID 330 - I

BOOK

Author: ZHILIN, A. I. Call No.: AF618850
Full Title: MINERAL WOOL
Transliterated Title: Mineral'naya vata

Publishing Data

Originating Agency: None
Publishing House: State Publishing House of Literature on Construction Material
Date: 1953 No. pp.: 235 No. of copies: 2,000

Editorial Staff

Editor: Kitaytsev, V. A.
Editor-in-Chief: None Tech. Ed.: None
Appraiser: None

Text Data

Coverage: This book presents the physicochemical principles of the production of slag and rock wool and of their products: mineral felt, mats, mattresses, and sheets used for heat and sound insulation purposes particularly in construction and refrigeration. Beginning with the slag and rock raw materials and their smelting in cupola furnaces, the design of cupolas and calculation of charges, also the processes in preparation and the use of slag and rock wool are

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described in great detail. The flow of production and the possible future uses of mineral wool are discussed in the conclusion.

The book is of possible interest as the latest and most complete Russian study of mineral wool technology, a field to which the Russians are devoting much monographic literature.

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Ch. 2	Physicochemical Bases of the Production of Mineral Wool	32-51
Ch. 3	Raw Materials Slag from ferrous and nonferrous metals; fuel slag; tailings from shale; rocks; comparative evaluation of raw material types; preparation of raw materials and composition of charge.	52-71

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Mineral'naya vata

AID 330 - I

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Ch. 5	Extraction of Mineral Fibre Steam blasting; gas blasting; centrifugal methods; technical and economic indices of production for supervision of these methods.	123-158
Ch. 6	Production of Mineral Wool Products Production of pliable, rigid, and loose mineral wool products.	159-184
Ch. 7	Methods of Testing and Production Control Testing the raw material; approximate calculation of the charge; organization of production control; methods of testing the finished product.	185-206
Ch. 8	Uses of Mineral Wool Mineral wool in construction and industry.	207-229
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ZHILIN, A.I.

Slag casting and problems in its technology. (In: Soveshchanie po eksperimental'noi mineralogii i petrografii. 4th, Moscow, 1952. Trudy, Moskva, 1953. No.2, p.250-263). (MLRA 7:3)

1. Gor'kovskiy politekhnicheskiy institut im. A.A.Zhdanov. (Slag)

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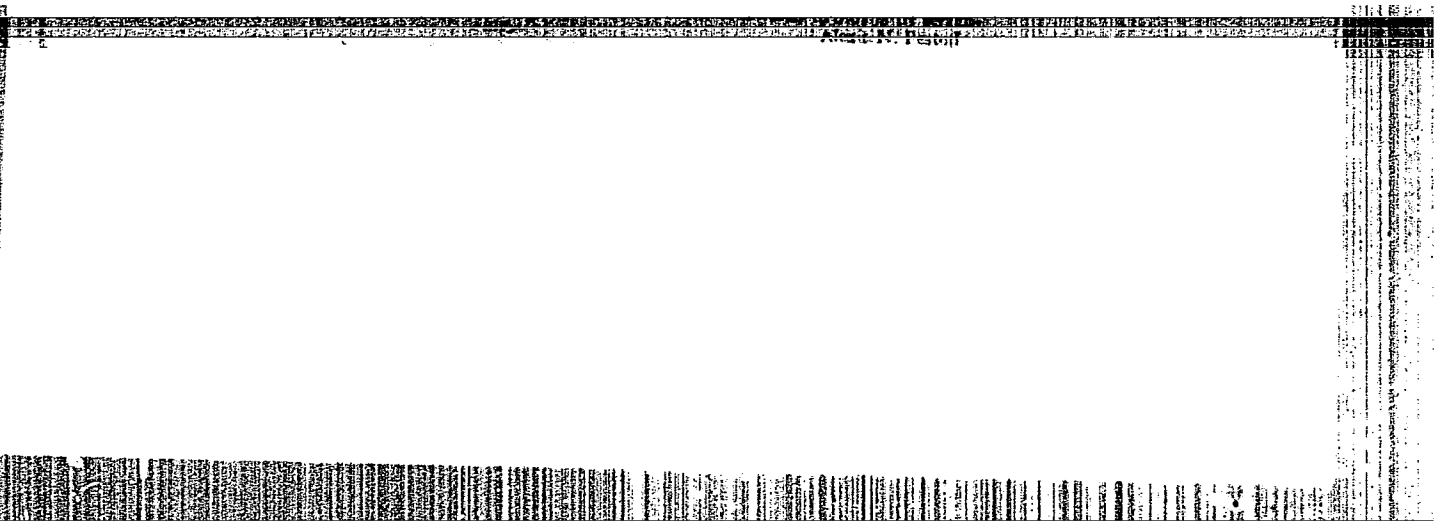

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ZHILIN, A., gvardii mayor; LUCHININ, G., gvardii leytenant, komandir vzvoda.

Raising the significance of responsibilities. Komm. Vooruzh. Sil. 46 no. 21:57-58 N '65 (MIRA 19:1)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILIN, A., gvardii mayor

Unfading light of combat glory. Komm. Vooruzh. Sil 46 no.9:56-58 My '65. (MIRA 18:7)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

SOV/137-57-10-18838

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 10, p 67 (USSR)

AUTHOR: Zhilin, A.I.

TITLE: Methods of Slag Casting and Trends in Their Development (Tekhnologiya shlakovogo lit'ya i puti yego razvitiya)

PERIODICAL: V sb.: Domennyye shlaki v str-ve. Kiyev. Gosstroyizdat UkrSSR, 1956, pp 271-280

ABSTRACT: An examination is made of questions of mechanization of the processes of production of cast objects from molten blast-furnace slag. It is recommended that slag mixers with electrical heating be installed for the slag. One of the possible designs for such a mixer may be a resistance furnace in which the resistance is provided by the molten slag itself. Mechanical vibration of the casting molds should be used to speed the crystallization of the cast objects and also to obtain fine-grain structure. A description is provided of a method of producing porous cast wall blocks developed in 1936-1939 at the Urals Polytechnic Institute. Also described are experiments in the production of cast products reinforced with steel, cast road-bedding blocks of slag, cast road-surface blocks, and mine reinforcing blocks.

Ye.V.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILIN, A. I. (deceased) and Yu. D. KRUCHININ

"Properties of Slag Melts and Their Castings" p. 431

Transactions of the Fifth Conference on Experimental and Applied Mineralogy and Petrography, Trudy ... Moscow, Izd-vo AN SSSR, 1958, 516pp.

reprints of reports presented at conf. held in Leningrad, 26-31 Mar 1956. The purpose of the conf. was to exchange information nad coordinate the activities in the fields of experimental and applied mineralogy and petrography, and to stress the increasing complexity of practical problems.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

In memory of A.N.Zhilin. Vest.TSNII MPS 20 no.3:64 '61. (MIRA 14:5)
(Zhilin, Aleksandr Nikolaevich, 1896-1961)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

FROLOV, A.G., doktor tekhn.nauk; BORISENKO, L.D., kand.tekhn.nauk; TYURKIN, M.N., inzh.; ZHILIN, A.M., inzh.; RABINOVICH, Yu.M., inzh.; POLOSUKHIN, A.Ya., inzh.

Loading machines for high-pressure hydraulic conveying of coal and rocks. Ugol' Ukr. 3 no.10:13-16 O '59.
(MIRA 13:2)

(Hydraulic mining) (Mine haulage)

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ZHILIN, A. N.

"Transition Processes in Three-Phase Circuits in the Case Of Non-Simultaneous Phase Connection." Official opponents: V. K. Shcherbakov, Professor, Doctor of Technical Sciences and Yu. Ye. Nebolyubov, Docent, Candidate of Technical Sciences.

Dissertation for the Degree of Candidate of Technical Sciences, defended at Tomsk Polytechnic Institute, imeni Kirova ~~1949-1954~~, 26 April 1950 (Elektrichestvo, 1958, Nr. 5, pp. 91-92) (USSR)

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ZHILIN, A.N.

Conference of readers and authors of "Vestnik" of the All-Union Scientific Research Institute of Railroad Transportation. Vest. TSNII MPS [7] no.3:60 My '58. (MIRA 11:6)
(Railroads--Periodicals)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILIN, A. N.

"Mineral Cotton," published by the Building Material Literature State Edition, Moscow, 1953 (Edited by V. A. Kitaytsev)

Physico-chemical principles of mineral cotton and of the atticles manufactured of it. Their properties are described as well as the field of their application, methods of testing raw material, calculations for cupola furnaces for the mwlting of slags and rock. Further possibilities of the industry are examined.

LIII

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

GRINBERG, A.A., inzh.; ZHILIN, A.P., inzh.; SERGOVANTSEV, V.T., kand.tekhn. nauk; IOGANSON, N.Ye., inzh.; AL'TSHULLER, S.Z., inzh.

Power supplying circuits for electric drives of fuel feeding systems. Elek.sta., 31, no.6:87-89 Je '60. (MIRA 13:7)
(Electric power plants--Equipment and supplies)
(Stokers, Mechanical--Electric driving)

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Kompleksnaya Mekhanizatsiya Osusheniya Bolot I Zagotovki Torfa Na Udobreniye (Over-All Mechanization of Swamp Drainage and of the Preparation of Peat for Fertilizer, By) M. Ye. Matsepuro I A. P. Zhilin. Minsk, Izd-Vo Akademiya Nauk BSSR, 1954.

186 P. Illus., Diagrs., Tables.

At Head of Title-Page: Beloruskaya Akademiya Navuk, Minsk) Institut Mekhanizatsii I Elektrifikatsii Sel'skogo Khozyaystva.

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Cand, Tech Sci

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

Zhilin, A.P.

AID P - 1799

Subject : USSR/Hydraulic Engineering Construction

Card 1/1 Pub. 35 - 11/17

Author : Zhilin, A. P.

Title : Efficient placement of entrances into draft tubes and scroll chambers

Periodical : Gidr. stroi., v.24, no.1, 38-39, 1955

Abstract : The article states that due to faulty design the access to draft tubes and scrolls for repairs is extremely difficult and sometimes quite impossible at many power plants. The author suggests building entrances to the scroll chamber from the upstream side, and to the draft tube from the tailwater. Two diagrams are given.

Institution: None
Submitted : No date

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILIN, A.P.

ZHILIN, A.P.

[Mechanizing the removal of stones from soil] Mekhanizatsyia achystki hlebau ad kamennia. Minsk, Dziarzh. vyd-va BSSR, 1957. 67 p.
(MIRA 11:1)

(Agricultural machinery) (Clearing of land)

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PINCHUK, Galina Aleksandrovna; POKALYUK, Aleksey Ivanovich; TEBENIKHIN, Yevgeniy Fedorovich; MEL'NIK, V.A., inzhener, redaktor; VORONOV, N.M., inzhener, redaktor; ZHILIN, A.S., inzhener, redaktor; KHITROV, P.A., tekhnicheskiy redaktor.

[The technology of fuels, lubricants and water] Tekhnologiia topliva, smazochnykh materialov i vody. Moskva, Gos. transportnoe zhel-dor. izd-vo, 1954. 351 p. (MLRA 7:12)
(Fuel) (Lubrication and lubricants) (Water)

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ZHILIN, A.S., inzhener, redaktor; KHITROV, P.A., tekhnicheskiy redaktor.

[Preparation of water fed to locomotive boilers; a collection of articles) Podgotovka vody dlia pitania kotlov parovozov; sbornik statei. Moskva, Gos.transp.zhel-dor.izd-vo, 1955. 136 p.
(Locomotive boilers) (MLRA 8:11)
(Feed-water purification)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

TEPLOV, Aleksandr Vladimirovich; ZHILIN, A.S., inzhener, redaktor; KHITROV, P.A., tekhnicheskiy redaktor.

[Railroad water-supply] Zheleznodorozhnoe vodosnabzhenie. Moskva, Gos.transp.zhel-dor.izd-vo, 1955. 315 p. (MLRA 8:10)
(Railroads--Water-supply)

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MOSKVIN, Grigoriy Nikiforovich, kandidat tekhnicheskikh nauk; ZHILIN, A.S., inzhener, redaktor; YUDZON, D.M., tekhnicheskiy redaktor

[The operation of railroad water supply systems] Ekspluatatsiia zheleznodorozhnogo vodosnabzheniia. Izd. 2-oe, dop. i perer. Moskva, Gos. transp. zhel-dor. izd-vo, 1956. 391 p. (MLRA 9:8)
(Railroads--Water supply)

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ZHILIN, A.S., inzhener; SAMOSUDOVA, P.A., inzhener; STEPANOVA, V.V.inzhener.

Methods and norms for calculating traffic capacity of railroads in relation to water supply. Vest.TSNII MPS 15 no.2:60 S '56.
(MIRA 9:12)

(Railroads—Water supply)

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SHAPROV, Mikhail Fedorovich; ZHILIN, A.S., otv.red.; ROMANOVA, L.A., red.izd-va; SABITOV, A., tekhn.red.

[Feed water preparation for stationary and locomotive boilers] Vodopodgotovka dlia statsionarnykh i parovoznykh kotlov. Moskva, Ugletekhizdat, 1959. 201 p. (MIRA 12:9)
(Feed water)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

S/035/62/000/002/040/052
A001/A101

AUTHORS: Veselov, K. Ye., Yevdokimov, Yu. S., Zhilin, A. V., Telepin, M. A.

TITLE: The gravimetric survey with marine static gravimeters on the Okhotskoye Sea and Pacific Ocean

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 2, 1962, 26, abstract 2G160 (V sb. "Prikl. geofizika", no. 29, Moscow, 1961, 136 - 156)

TEXT: The purpose of research was the study of depth structure of the Earth's crust in the transition zone from the Asiatic continent to the Pacific in the region of the Kurilo-Kamchatka island row. The observations were conducted from a moving ship with quartz non-astatisized gravimeters with horizontal filament and liquid temperature compensation, provided with strong damping and mounted on Cardan suspension. The measurements were carried out simultaneously with three gravimeters, two of which were equipped with photorecording devices. The magnitude of a random error in measurements with the group of instruments did not exceed ±1.8 mgal. The accuracy of visual observations was somewhat lower than the accuracy of measurements with photorecording. In processing the results were

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introduced the corrections of Etvoes and Pray (for depth) and anomalies of Fay and Bouguer were then calculated. The density of the intermediate layer was assumed to be 2.65 and water density - 1.03. For all three profiles the curves of gravitational field in Fay reduction almost do not differ from each other. The Okhotskoye Sea is characterized by a weak positive field, a small coastal effect distinctly appears at the Sakhalin shelf. The coastal effect is greater in the zone of the Kuril'skaya arc. In the Ocean the curve of Fay anomalies remains in the region of positive values, which are larger than on the Okhotskoye Sea. The authors calculated for the southern and northern profiles density drops from the upper boundary to the lower one, and the densities proper for three layers in the northern section and four layers in the southern one.

I. Yesakov

[Abstracter's note: Complete translation]

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

VESELOV, K.Ye.; YEVDOKIMOV, Yu.S.; ZHILIN, A.V.; TELEPIN, M.A.

Gravimetric surveying with marine static gravimeters in the Sea of Okhotsk and the Pacific Ocean. Prikl. geofiz. no.29:136-156 '61. (MIRA 14:6)

(Okhotsk, Sea of--Gravimetry)
(Pacific Ocean--Gravimetry)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8"

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ZHILIN, E.A.; PETRENKO, V.P.; SHAMRUK, G.V.; YANUSH, Yu.N.

Shortcomings in the planning, designing and assembling of the turbocompressor plant of a compressor station. Gaz. prom. 4 no.3:49-50 Mr '59. (MIRA 12:5)
(Gas, Natural--Pipelines) (Compressors)

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ZHILIN,G., laureat Stalinskoy premii; SHEPILOV,V., inzhener

Measures for increasing fire tube service in L locomotives. Tekh. zhel.dor.7 no.7:10-12 Jl'48. (MLRA 8:11)
(Locomotive--Boilers)

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ZHILIN, G.

Zhilin, G. and Shepilov, V. "Utilization and improvement of series L Locomotives," Zh.-d. transport, 1948, No. 12, pp. 35-42

SO: U-3264, 10 April 53 (Letopis 'Zhurnal 'nykh Statey, No. 4, 1949).

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ZHILIN, G.A.; MALINOV, M.S.; RODOV, A.M.; SULIMTSEV, I.I.; SHIFRIN, M.G.; KISELEVA, N.P., inzh., red.; IL'IN, B.M., tekhn. red.

[TEP60 diesel locomotive for passenger trains] Passazhirskii teplovoz TEP60. Moskva, Transzheldorizdat, 1963. 222 p. (MIRA 16:9)

(Diesel locomotives)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILIN, G. P.

Machinery in the repair and maintenance of station tracks. Put' i put. khoz. 7 no.3:9-10 '63. (MIRA 16:4)

1. Glavnyy inzh. sluzhby puti Pridneprovskoy dorogi, Dnepropetrovsk.

(Railroads—Maintenance and repair)

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1. ZHILIN, B. G., KOLPAKOV, A.P.

2. USSR (600)

4. Lumbering

7. Unloading full-length logs trucked to the river for free floating. Les prom N°. 2 1953

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

1. KOLPAKOV, A. P., ZHILIN, B. G.

2. USSR (600)

4. Loading and Unloading

7. Unloading full-length logs trucked to the river for free floating. Les prom No. 2 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

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ZHILIN, D.I., kand.tekhn.nauk

Efficient freight car for peat transportation. Torf.prom. 39 no.4:14-16 '62. (MIRA 15:7)

1. Kalininskiy torfyanoy institut.
(Peat--Transportation)
(Railroads--Freight cars)

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TUGOV, Ivan Ivanovich; ZHILIN, D.I., retsenzent; MIKHAYLOV, V.A., retsenzent; OL'SHANETSKIY, M.S., retsenzent; TORMOZOVA, L.I., redaktor; MEDVEDEVA, L.A., tekhnicheskiy redaktor

[Technology of leather substitutes and industrial fabrics] Tekhnologiia zamenitelei kozhi i tekhnicheskikh tkanei. Izd. 2-oe, dop. i perer. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva legkoi promyshl. SSSR, 1956. 531 p. (MLRA 10:1)
(Leather substitutes) (Textiles)

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ZHILIN, D. N.

ZHILIN, D. N. -- "Calculation of Rational Parameters of a Narrow-Gauge Car for Hauling Peat." Sub 3 Jun 52, Moscow Order of Labor Red Banner Engr Constr Inst immeni V. V. Kuybyshev (Dissertation for the Degree of Candidate in Technical Sciences)

SO: VECHERNAYA MOSKVA, JANUARY-DECEMBER 1952

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ZHILIN, D.N.

Using belt conveyers to transport peat. Trudy Kal. torf. inst. no.13:230-236 '63. (MIRA 17:12)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILIN, G.A.

New diesel locomotive for passenger service. Elek. i tepl. tiaga 4 no. 9:30-33 S '60. (MIRA 13:12)

1. Zamestitel' glavnogo konstruktora po lokomotivstroyeniyu Kolomenskogo teplovozostroitel'nogo zavoda im.V.V.Kuybysheva.
(Diesel locomotives)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8"

"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILIN, G.A.

The TEP60 diesel locomotive for passenger trains. Biul. tekh.-ekon. inform. no.11:57-60 '60. (MIRA 13:11)
(Diesel locomotives)

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ZHILIN, G. A.

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PASSAZHIRSKIY PAROVOZ 2-4-2 (PASSENGER LOCOMOTIVE 2-4-2, BY) G. A. ZHILIN (I DR.) POD OBSHCHEY RED. G. A. ZHILINA. MOSKVA, TRANSZHELDORIZDAT, 1956.

362 p. ILLUS., DIAGRS., TABLES.

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ZHILIN, G.A., inzhener. (g.Kolomna); MALINOV, M.S., inzhener. (g.Kolomna).

Important problems in prospective diesel locomotive construction.
Zhel.dor.transp. 38 no.10:9-17 O '56. (MLRA 9:11)
(Diesel locomotives)

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ZHILIN, G.A., inzhener; GRESYUK, M.I., inzhener; MALINOV, M.S., inzhener; CHISTOV, V.K., inzhener; GALANOVA, M.S., inzhener, redaktor; KHITROV, P.A., tekhnicheskiy redaktor

[Passenger train 2-4-2 locomotive] Passazhirskii parovoz 2-4-2. Pod obshchei red. G.A.Zhilina. Moskva, Gos.transp. zhel-dor. izd-vo, 1956. 362 p. (MLRA 9:8)
(Locomotives)

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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8

ZHILIN, G.A., inzhener.

Load distribution among the axles of locomotives. Zhel.dor.transp. 39 no.6:62-65 Je '57. (MLRA 10:7)
(Locomotives) (Axles)

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810011-8"

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TOMIN, Ye.D., kand. tekhn. nauk; ZHILIN, G.V., inzh.; KOP'YEV, Ye.I., inzh.

Machines for cleaning shallow drainage canals. Gidr. i mel. 17 no.7:30-38 Jl '65. (MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki i melioratsii.

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ZHILIN, I. S.

The general average and problems of the maritime law. Moskva, Morskoi transport, 1951. 77 p. Bibliotechka sudovoditelia morskogo flota. (53-18350)

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